SMITHSONIAN INSTITUTION
Contributions from the United States National Herbarium
Volume 50: 1 - 150

Smithsonian Plant Collections, Guyana:
1990 - 1991, Tim McDowell

by
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and
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Department of Botany
National Museum of Natural History
Washington, DC
2004

ABSTRACT

Hollowell, Tom, Tim McDowell, V.A. Funk, Carol L. Kelloff and Doorjoohan Gopaul. Smithsonian Plant Collections, Guyana: 1990 - 1991, Tim McDowell. *Contributions from the United States National Herbarium*, Volume 50: 150 pages (including 8 plates). Part I provides the collector's notes on trips in chronological order. Part II lists collection localities, with collection number ranges, habitat descriptions, geographic coordinates, and assisting collectors. Part III consists of maps of Guyana showing collecting localites. Part IV lists collections in numerical order with identifications and authors. Part V lists collections ordered by determined name.
KEY WORDS: Guyana, Botanical Collecting, Nomenclature

DATE OF PUBLICATION: December 2004

Cover Design by Alice Tangerini. Illustrations by Cathy Pasquale, courtesy of the Department of Botany, Smithsonian Institution. Front cover: *Lampadaria rupestris* Feuillet & L.E. Skog (Gesneriaceae); back cover: *Paradrymonia barbata* Feuillet & L.E. Skog (Gesneriaceae), both from Feuillet, C. and L.E. Skog. 2002 (2003). Novae Gesneriaceae Neotropicarum XII. New species of Gesneriaceae from the Guianas. *Brittonia* 54 (4): 352-361. Front piece (p. 4) *Justicia mcdowellii* Wassh. (Acanthaceae), from Wasshausen, D.C. 2002. New species of *Justicia* (Acanthaceae) from the Guianas. *Brittonia*, 54(4): 286–297.

All photographs by Tim McDowell, except as noted, courtesy of the Smithsonian Institution's Biological Diversity of the Guiana Shield Program.

Contributions from the United States National Herbarium (ISSN 0097-1618) Department of Botany, MRC 166, National Museum of Natural History, Smithsonian Institution, Washington, DC, 20013-7012, USA.

POSTMASTER: Send address changes to Contributions U.S. National Herbarium, Department of Botany MRC 166, National Museum of Natural History, Smithsonian Institution, Washington, DC, 20013-7012, USA.

The paper used in this publication meets the minimum requirements of the American National Standard for Permanence of Paper for Printed Library Materials Z39.48—1984.

Contributions from the U.S. National Herbarium was first published in 1890 by The United States Department of Agriculture. From July 1, 1902 forward it was published as a Bulletin of the United States National Museum. The series was discontinued after volume 38, 1974, and has been revived with volume 39, as a venue for publishing longer taxonomic papers, checklists, floras, and monographs, produced by staff and associates at the U.S. National Herbarium. It is externally peer reviewed, and published at irregular intervals. Subscriptions and other correspondence should be addressed to CUSNH, Department of Botany, MRC 166, National Museum of Natural History, Smithsonian Institution, Washington, DC, 20013-7012, USA. e-mail: CUSNH@nmnh.si.edu. The present issue is available for free while supplies last.

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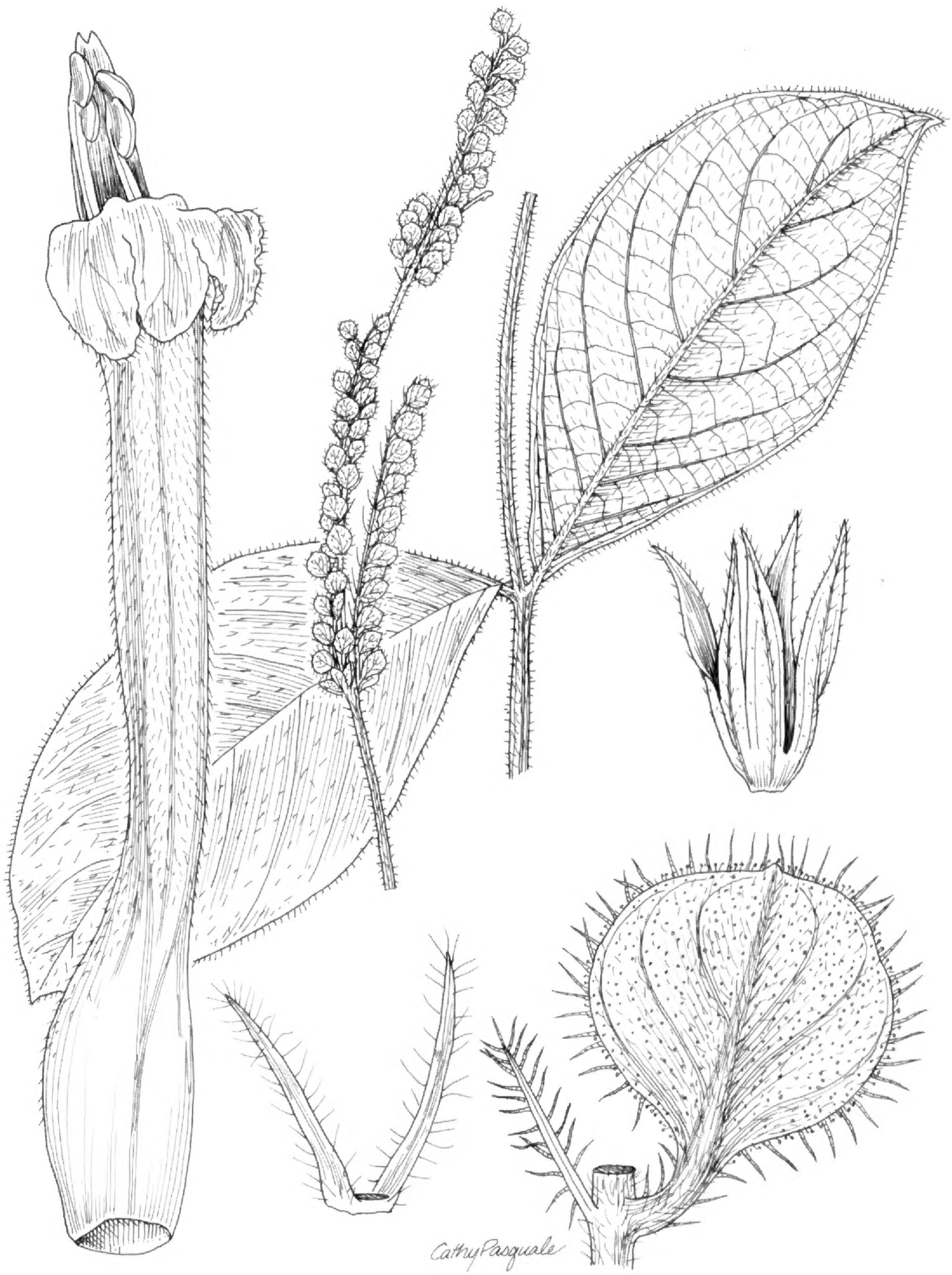

Illustration of the type collection of *Justicia mcdowellii* Wassh., based on McDowell 3473. From the publication in *Brittonia* 54: 293 (2002). Illustration by Cathy Pasquale.

Smithsonian Plant Collections, Guyana: 1990-1991, Tim McDowell

Tom Hollowell[1], Tim McDowell[2], V.A. Funk[1], Carol L. Kelloff[1], and Doorjoohan Gopaul[3]

INTRODUCTION

The Biological Diversity of the Guiana Shield Program

The "Biological Diversity of the Guiana Shield Program" (BDG, formerly the Biological Diversity of the Guianas Program) is a field-oriented program of the Smithsonian Institution's (SI) National Museum of Natural History. The goal of the BDG is to study, document and preserve the biological diversity of the Guiana Shield, which includes Guyana, Surinam, French Guiana, the Venezuelan states of Amazonas, Bolívar and Delta Amacuro, and parts of southern Colombia and far northern Brazil. The BDG program has been operating since 1983. Originally confined to botany, it now covers all aspects of biodiversity. Its fieldwork in countries other than Guyana has been limited to date, however data gathering and analyses of diversity are increasingly focused on the natural unit of the Guiana Shield (Escudo de Guayana in Spanish) rather than political units. In Guyana the BDG operates under the auspices of the University of Guyana (UG) with which it has a Memorandum of Understanding.

The Guiana Shield (Figure 1) is a biologically diverse area defined by a distinct, ancient geological formation that is roughly bounded by the Atlantic Ocean to the east, the Orinoco River to the north and west, the Río Negro to the southwest, a major tributary of the Amazon River, and the Amazon River to the South (Gibbs & Barron, 1993). The Orinoco River and Río Negro are connected by the substantianl Rio Casiquiare, making much of this geological area a literal island. The Guiana Shield contains many isolated, steep-sided mountains of sandstone (tepuis) and granite (inselbergs) which, along with the assortment of habitats including tropical savannas, lowland and montane forests, and montane scrub, account for the high diversity and endemicity of the flora and fauna (Berry et al., 1995).

Unlike many other tropical regions, more than 70% of the natural habitat of the Guiana Shield remains pristine. In the three Guianas in particular, because national governments own most of the land and the population is concentrated along the coast and major rivers, destructive development of the interior has been kept to a minimum until recently. Conservation efforts vary within the region. In parts of Surinam and the Venezuelan Guayana large tracts of extremely interesting forest and their accompanying biota have been designated for conservation. The process of establishing protected areas is in its early stages in Guyana, while much of French Guiana is under low threat even without a fully implemented protected areas system. Many natural areas in both Guyana and

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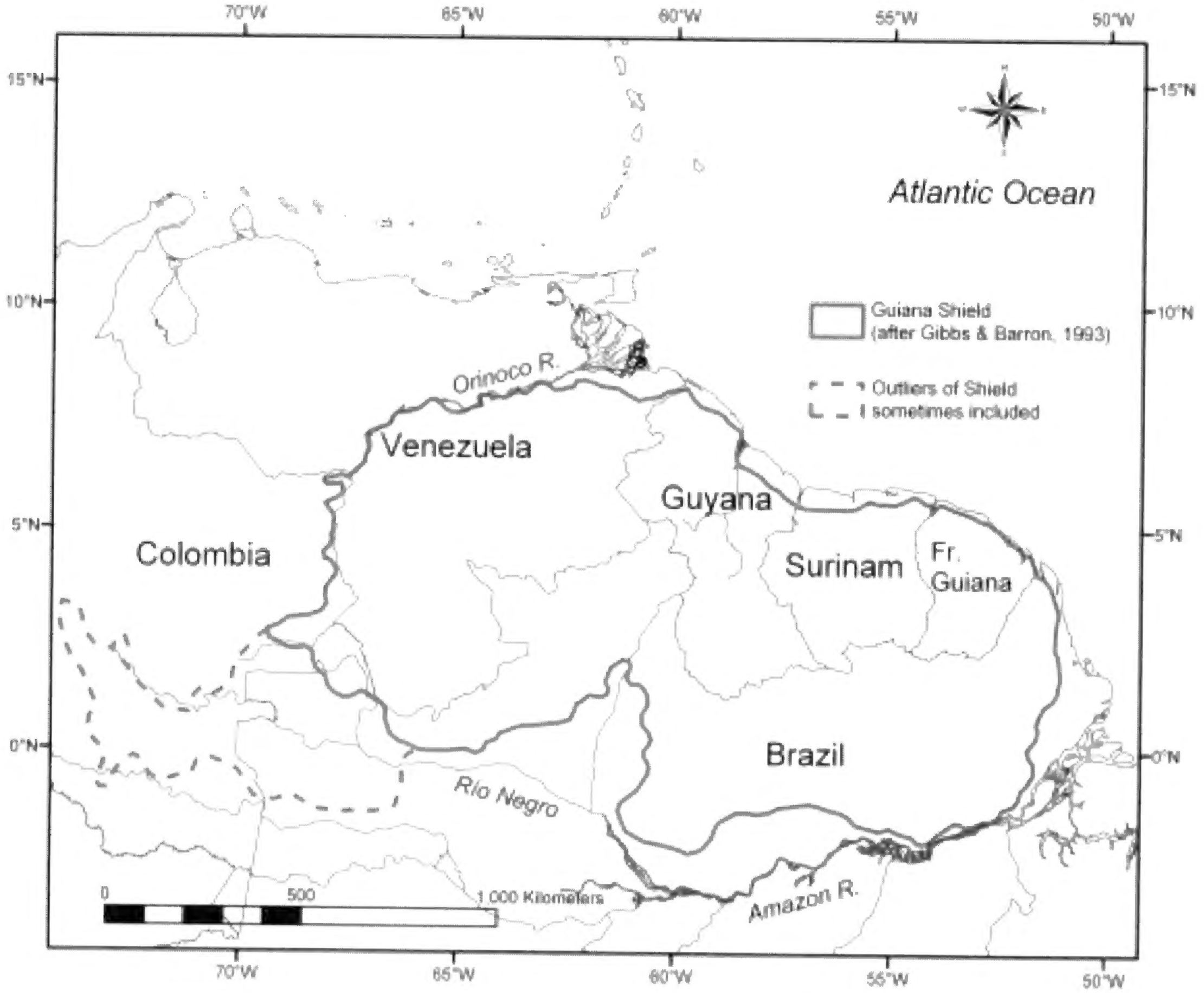

Figure 1. The Guiana Shield. Boundaries are adapted from Gibbs and Barron (1993). The dashed boundary includes isolated outliers of similar geologic composition that are sometimes included in the Shield.

the Venezuelan Guayana are designated as concessions, and are therefore seriously threatened by resource extraction activities as practiced by multinational logging and mining companies. All of the countries have areas that have suffered degradation due to gold miners originating from both within and outside of national boundaries.

It is important that we gain an understanding of the flora and fauna of the Guiana Shield so that decisions can be made concerning critical areas that have high priority for conservation and to guide the collection of data from areas that might ultimately become degraded. In addition, because this region has been long neglected by biologists, it is often an area of "insufficient information" for analyses of many biological groups. For many years most collectors bypassed Guyana in particular. The BDG program aims to fill these gaps by providing specimens and data to address biodiversity questions about many groups of organisms and assist a variety of research and conservation projects. This new information is now being used to produce checklists, vegetation maps, and floristic and faunistic studies. In addition, the BDG program is exploring uses of these data that will lead to a synthesis of information addressing broader biodiversity issues and understanding (Funk and Richardson, 2002; Kelloff, 2003; Funk et al., in press; Kelloff and Funk, 2004).

Prior to the BDG's work, Guyana was poorly known biologically, with sparse documentation of the composition and distribution of its biota. After 18 years of collecting, the BDG Program has produced works important to the understanding of Guyana's biological diversity

and in assisting Guyana with conservation efforts. The BDG Program has published a vegetation map of Guyana (Huber et al., 1995), as well as plant checklists for the Guianas (Boggan et al., 1997), the Guiana Shield (Hollowell et al., 2001), the Iwokrama area (Clarke et al., 2001), and Kaieteur National Park (Kelloff and Funk, 1998). It has also published the *Field Checklist of the Birds of Guyana* (Braun et al., 2000). Data from the BDG program have been used in many publications; a complete list of these can be found on the program's website at *www.mnh.si.edu/biodiversity/bdg/bdgpub.html*. The *Checklist of the Mammals of Guyana* (Engstrom & Lim, 2001-present) and the *Preliminary Checklist of the Herpetofauna of Guyana* (Reynolds et al., 2001-present) are also posted and maintained on the BDG website. In addition to these, checklists of

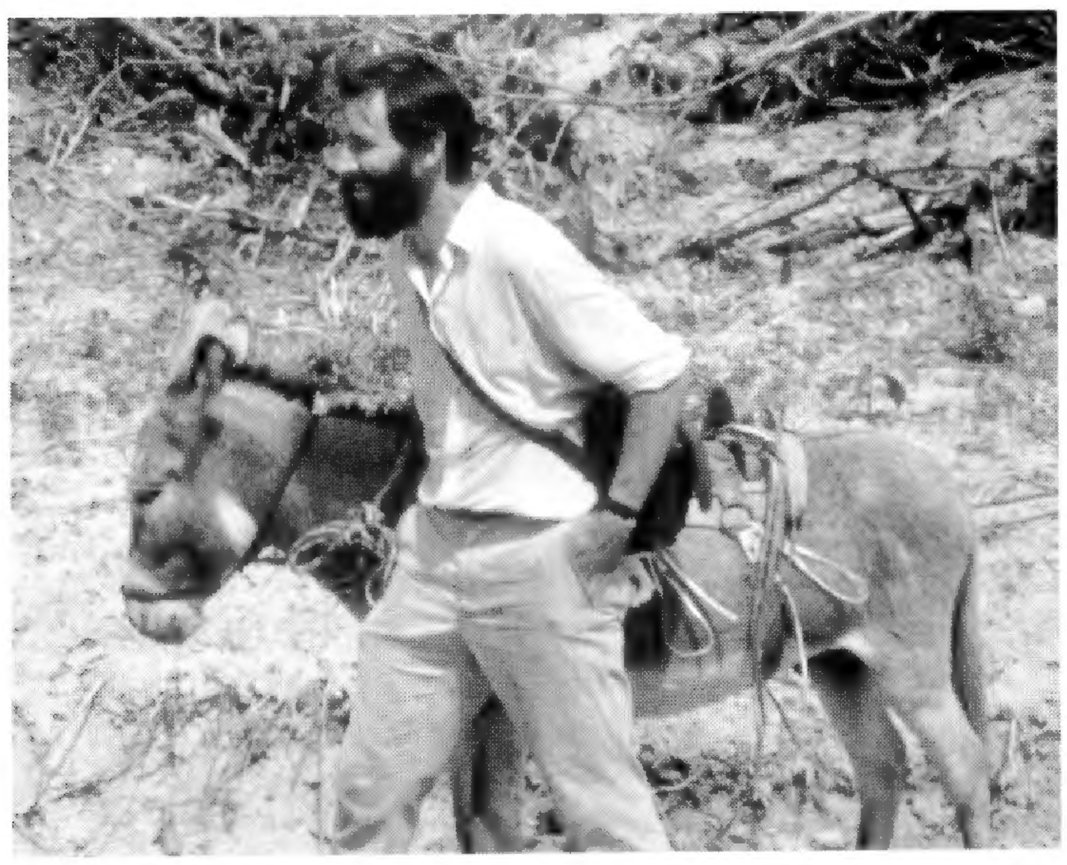

Figure 2. Tim McDowell leaving Surama Village (Trip 2) to collect along the Georgetown – Lethem Road during clearing for its construction, February 1990.

all terrestrial vertebrates of the Guiana Shield will soon be published and then be made available on the BDG website.

The BDG fulfills the goals of the Smithsonian Institution by gathering and distributing new information in order to encourage production of floras and faunas of poorly known areas; by participating in training of students and professionals from the host countries; by supplying data for the identification and preservation of biologically diverse areas; and by providing specimens for systematic studies both within the Smithsonian and throughout the world. Although the program operates out of the Smithsonian, it depends on extensive collaborations throughout the world to accomplish its goals. Currently there are over 100 scientists with whom the BDG interacts. (See the BDG website for a full list of collaborators and other information).

From 1986 until 1998 the BDG maintained a resident plant collector in Guyana. More recently the program has employed resident butterfly, ant and bird collectors. Botanical specimens collected through the program have been distributed to a network of experts for identification and a set of specimens is deposited at UG, the US National Herbarium in Washington DC, and many other botanical institutions. At the time of this publication the BDG program has collected approximately 45,676 numbers, representing over 228,500 individual specimens. A full set of botanical collections and a representative set of zoological collections have been deposited at the Centre for the Study of Biological Diversity (CSBD) at the University of Guyana; currently the CSBD herbarium holds over 40,000 mounted plant collections.

Tim McDowell

Tim McDowell was the fourth Resident Plant Collector to participate in the BDG Program (Figure 2). Over a nearly 18 month period, he spent 15 months in Guyana and more than 192 days in the field. He collected 3,242 plant numbers, including mixed collections that were eventually split. These specimens were processed first at the University of Guyana and then by the U.S. National Herbarium at the Smithsonian Institution. This processing included distribution to specialists for determination and to other botanical institutions as part of specimen exchange programs. Currently, just over 85% of these plant collections have been identified to species. The determinations have shown that Tim McDowell collected over 1,500 taxa in 692 genera. Copies of his field notebooks and mounted vouchers for his collections are now in the Guyana National Herbarium housed at the CSBD, University of Guyana.

A resident botanist plays an informal but important role in outreach to the general

population. The Smithsonian collectors live in a regular neighborhood, enduring the same irregularities in services as their fellow Georgetowners. A resident botanist also forms a bridge with the local Guyanese people. McDowell customarily traveled about the city by foot, bicycle and minibus, shopping in the street markets and bakeries, and commuting to the University in public minivans. After conducting several extended field trips, McDowell gave a public presentation with slides illustrating his botanical collections. This talk at the library of the U.S. Information Services (USIS) in downtown Georgetown was given to a large audience, and many of the attendees expressed appreciation for the travelogues about their nation's remote forests, mountains and rivers.

Figure 3. Doorjoohan Gopaul piloting a boat with specimens, on the collecting excursion on the Kamarang River (Trip 5).

The resident botanist also provides an active link between the Smithsonian's research efforts and the programs of other nations. For example, McDowell maintained friendships and frequently discussed botanical fieldwork with other researchers, such as Dutch botanist-ecologist Peter van der Hoot of the Tropenbos program. Scientists from the Royal Ontario Museum of Natural History coordinated with McDowell when planning their expeditions in Guyana. McDowell also kept active contacts with several private companies, such as Guyanese timber operations, mineral exploration companies, and numerous smaller operations.

The resident botanists thus play a greater role in the Smithsonian mission than merely planning field expeditions and collecting plant specimens. They are active, dedicated and, not insignificantly, apolitical outreach persons who represent the amiable, pro-conservation and pro-education interests of the United States scientific community. While the role of the resident collector is in some ways minor compared to that of the outreach organized by the BDG Program, each resident collector is a key person in the country for keeping the collaborative relationship active over the months and years.

Many of the BDG's collectors, McDowell included, use their experience in Guyana to gain hand's on knowledge of tropical biology and build upon it to enhance their careers as professional botanists. They are often either recently graduated with an advanced degree or continue on to complete a Masters and/or Ph.D.

During McDowell's stay in Guyana, he was accompanied in the field by a variety of Guyanese biology students, foresters and botanists. From the University of Guyana Herbarium, there were co-collectors Doorjoohan Gopaul (Figure 3) and Suroojnauth Tiwari (Figure 4), who accompanied a large number of collecting trips with several Smithsonian botanists. Allison Stobey (Figure 10), from the Guyana Forestry Department, traveled on two trips with McDowell and others. Many other Guyanese including Amerindians and other residents of interior towns and settlements participated in collecting trips with McDowell. The collecting teams normally included two to five local men who served as guides, shared the backpacking of supplies and specimens, and set up camps in remote areas. These hired men were paid by the day for the extent of the trip, with food normally provided from the stocks the collector brought with him from the capital Georgetown. Strong friendships often developed between the resident botanist and the Guyanese

members of the team as they shared the challenges of travel and botanical fieldwork under difficult circumstances and inclement weather. Among the Guyanese members of teams who also assisted McDowell with collecting, as recorded on the specimen labels, were S. Allicock, L. Anselmo, A. Raphael, P. Singh, J. Thompson, L. Thompson, J. Richards and O. Williams.

Scientists from several countries also participate in field trips organized by the resident botanist. McDowell conducted field expeditions with American botanists Pedro Acevedo, Christian Feuillet, Vicki Funk, Charles Horn, Carol L. Kelloff, Kate Lance, and John Wiersma, as well as with fellow resident botanists including Lynn Gillespie on her last expedition, and Bruce Hoffman on McDowell's last expedition. McDowell's first collecting trip in Guyana was made under the leadership of his predecessor Lynn Gillespie, along with BDG Program Director Vicki Funk and S. Tiwari. They collected on Gillespie's numbers series along the Ituni-Kwakwani Road from 16 – 19 January 1990 (Hollowell et al., 2003). This overlap of collectors with their predecessors and successors has been an important practice followed by the BDG program for training and maintenance of continuity, both in the field and in Georgetown. Other scientific visitors who accompanied McDowell on his field trips include Malariologist/ Parasitologist Jean Handy (listed as J. Bowdre on herbarium labels) and independent British naturalist W. Brown. Deborah Hughs, a Fulbright Scholar from the United States, joined McDowell's collecting team on a lengthy walk in the tepui region of the upper Kamarang River, for the second part of Trip 5.

The assistance of Dr. George Walcott, Vice-Chancellor of UG, Dr. Indarjit Ramdass, Head of the UG Biology Department, and the staff at the U.S. Embassy in Georgetown, Guyana was invaluable. Dr. Walcott made the entire operation possible by acting as the crucial person in developing the project. Dr. Indarjit Ramdass helped considerably in facilitating field trips and providing logistical support, and the U.S. Embassy helped with handling and shipping of supplies and specimens collected by McDowell. In Georgetown considerable assistance in securing supplies was given by "Harold" Mohamed Ameer. Without all of their help, the program would not have succeeded.

Dr. McDowell has become a specialist in the plant family Rubiaceae and is currently an associate professor at Eastern Tennessee State University (ETSU), teaching plant biology and systematics. He serves as curator of the John C. Warden Herbarium and as Director of the ETSU Arboretum. His publications include articles on the neotropical genera *Exostema* (McDowell, 1996a; McDowell & Bremer, 1998) and *Syringantha* (McDowell 1996b), Caribbean biogeography (McDowell et al., 2003; Fritsch & McDowell, 2003) and botanical teaching (Levy, Hill & McDowell, 2001; McDowell & Levy, 2003). He is currently preparing a taxonomic treatment for the genus *Morinda* (Rubiaceae) for the Flora of the Guianas with ETSU student Amanda Parks.

Format of Collection Information

Over 150 taxonomic specialists and other botanical professionals participated in the identification of plants collected by Tim McDowell. Now that over 85% of these collections have been identified, this publication makes the results of his fieldwork widely available in print to the botanical and conservation communities. This publication also serves as a resource for many herbaria that have received duplicates of these collections. As is always the case with such endeavors, specialists may revise the determinations of specimens, and data errors are discovered and corrected over time. The BDG website (see below) with these data will be periodically updated.

This publication is divided into four parts: Part I is comprised of narratives prepared by McDowell on the localities, habitats, people, and events of the collecting trips. The St. Cuthberts – Rockstone section (Trip 1) was contributed by Vicki Funk, who collected with McDowell on that trip, and the Mt. Ebini section (Trip 12) was contributed by Carol Kelloff, who accompanied McDowell on that expedition.

Part II is a detailed account of the localities where McDowell made his collections for the BDG program; these are listed chronologically and grouped by trip. The range of numbers for each trip is indicated, as are the dates of the trip. Within each trip specific localities, as provided by the collector, are listed with their collection number ranges, the date for those collections, latitude and longitude coordinates, elevation ranges in meters, habitat descriptions, and co-collectors. Latitude and longitude are given in degree (°), minute (′), and second (″) format. These collections were made just prior to availability of affordable Global Positioning Systems (GPS); coordinates were usually recorded in the field notebooks only to the nearest minute, and accuracy varies as localities were determined in the field using maps of varying quality.

Part III is a set of maps indicating the localities for each of McDowell's collecting trips, along with selected place names mentioned in the trip narratives. As stated above, the accuracy of these collecting localities is subject to the tools that were available to collectors at the time. The maps were produced using ArcMap 8 (ESRI, 2002) with basemap coverages produced through the BDG's collaboration with the CSBD at the University of Guyana.

Part IV is a listing of the McDowell collections in numerical order. Each collection number is followed by the determined plant family, the plant name including any infraspecific names that have been provided, and authors of the name. The plant name information may be checked against the synonymy provided in the *Checklist of the Plants of the Guianas, 2nd Edition* (Boggan et al., 1997), or in the *Preliminary Checklist of the Plants of the Guiana Shield. Volume 1: Acanthaceae - Lythraceae* (Hollowell et al., 2001), both of which are available online at *http://www.mnh.si.edu/biodiversity/bdg*. In a few cases a commonly accepted name is listed following the determined name. The authors of plant names conform to standard abbreviations (Brummitt and Powell, 1992).

Part V is a listing of collections by determined name, sorted by division, family, genus and specific epithets followed by the collection numbers for each name. Specimens not determined to genus are the first listed for each family, and specimens not determined to species are the first listed for each genus. This section is provided to facilitate the location of specimens of interest to specialists.

The first set of all McDowell collections has been distributed to the Guyana National Herbarium at CSBD. After determination, a second sheet is deposited at Smithsonian's U.S. National Herbarium (US). Additional duplicates have also been distributed to many other herbaria in the Americas and Europe as part of ongoing exchange programs. Anyone requiring additional information about these specimens or about the specialists and other individuals who participated in the determination of specimens may contact the BDG Program at the US National Herbarium, MRC 166, Smithsonian Institution, Washington DC, 20013-7012 USA.

This is the third publication by the BDG detailing the collections of the program's resident plant collectors. The first publication covered the collections of John J. Pipoly from 1987 to 1988 (Hollowell et al., 2000), and the second covered the collections of Lynn J. Gillespie from 1989 to 1991 (Hollowell et al., 2003). As identification of specimens collected by other BDG botanists approaches at least 80% completion, additional publications will be issued in this series. This is publication number 87 in the Smithsonian's Biological Diversity of the Guiana Shield Program publication series.

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Acknowledgments

The compilation of this collection summary would not have been possible without the work of many people who have assisted the BDG Program over the years, both at the Smithsonian and in Guyana. Among these people are John Boggan, Larry Skog, Margaret and Malcolm Chan-a-Sue, H. David Clarke, Phillip daSilva, Michael Tamessar, Susan Grose, Marilyn Hansel, Dyantie Naraine, Naseem Nasir, and George Walcott. We also thank Paul Berry of the University of Wisconsin and Scott Mori of the New York Botanical Garden for suggestions on the manuscript. The multitude of specialists, both past and present, who have helped in the determination of Tim McDowell's specimens from Guyana, are listed below.

Contributors of Identifications

Fungi

Auriculariaceae: T.W. Henkel
Ganodermataceae: T.W. Henkel
Polyporaceae: T.W. Henkel
Xylariaceae: T.W. Henkel

Lichens

Cladoniaceae: T. Ahti

Bryophytes

Calymperaceae: A.E. Newton
Dicranaceae: A.E. Newton
Funariaceae: A.E. Newton
Hookeriaceae: A.E. Newton
Hypnaceae: A.E. Newton
Leucobryaceae: A.E. Newton
Leucomiaceae: A.E. Newton
Polytrichaceae: A.E. Newton
Pottiaceae: A.E. Newton

Lycophytes

Lycopodiaceae: C.L. Kelloff, D.B. Lellinger
Selaginellaceae: D.B. Lellinger

Pteridophytes

Adiantaceae: D.B. Lellinger, J. Prado
Aspleniaceae: D.B. Lellinger, G.S. McKee
Blechnaceae: D.B. Lellinger
Cyatheaceae: D.B. Lellinger
Dennstaedtiaceae: C.L. Kelloff, D.B. Lellinger, H. Tuomisto
Dryopteridaceae: D.B. Lellinger
Gleicheniaceae: D.B. Lellinger
Grammitidaceae: D.B. Lellinger
Hymenophyllaceae: D.B. Lellinger, H. Tuomisto
Lomariopsidaceae: D.B. Lellinger
Lygodiaceae: C.L. Kelloff
Marattiaceae: D.B. Lellinger
Metaxyaceae: D.B. Lellinger
Oleandraceae: D.B. Lellinger, G.S. McKee, R. Tryon
Ophioglossaceae: C.L. Kelloff
Polypodiaceae: C.L. Kelloff, D.B. Lellinger
Pteridaceae: D.B. Lellinger
Schizaeaceae: C.L. Kelloff, D.B. Lellinger
Tectariaceae: D.B. Lellinger
Thelypteridaceae: D.B. Lellinger
Vittariaceae: D.B. Lellinger
Woodsiaceae: D.B. Lellinger

Gymnosperms

Gnetaceae: J.W. Kuijt

Anthophyta

Acanthaceae: D. Wasshausen
Amaranthaceae: J.K. Boggan, R.A. DeFilipps
Anacardiaceae: J.D. Mitchell
Annonaceae: H.L. de Boo, D.M. Johnson, H. Maas, P.J.M. Maas, C.M. van Zuilen
Apiaceae: C.L. Kelloff
Apocynaceae: L. Allorge, J.K. Boggan, A.J.M. Leeuwenberg, J.F. Morales, M.M. Plumel
Aquifoliaceae: H.D. Clarke, E. Tripp, M. Sewell
Araceae: T. Croat, D.H. Nicolson
Araliaceae: J.C. Lindeman
Arecaceae: J.J. de Granville, A. Henderson
Aristolochiaceae: C. Feuillet
Asclepiadaceae: G. Morillo
Asteraceae: V. Funk, J. Pruski, H. Robinson
Balanophoraceae: B. Hansen
Begoniaceae: L.B. Smith, D. Wasshausen
Bignoniaceae: C. Feuillet, A. Gentry, S.O. Grose, W.D. Hauk
Bixaceae: C.L. Kelloff
Bombacaceae: L.J. Dorr, C.L. Kelloff, E. Tripp
Bonnetiaceae: S.A. Mori, A. Weitzman
Boraginaceae: C. Feuillet, M.J. Jansen-Jacobs, J.S. Miller, K. Redden, C.M. Taylor
Bromeliaceae: J.K. Boggan, J.R. Grant, E.J. Gouda, M.A. Spencer
Burmanniaceae: J.K. Boggan, C.L. Kelloff, P.J.M. Maas
Burseraceae: D. Daly, A. Goldberg
Cactaceae: B.E. Leuenberger
Campanulaceae: R.A. DeFilipps, J. Luteyn
Cannaceae: P.J.M. Maas
Capparaceae: R.A. DeFilipps, J.C. Lindeman
Caryocaraceae: G.T. Prance
Casuarinaceae: C.C. Berg
Cecropiaceae: C.C. Berg
Celastraceae: A.R.A. Görts-van Rijn, P. Hiepko
Chrysobalanaceae: R.C. Barneby, G.T. Prance, J. Rhodes, S.F. Smith
Clusiaceae: J.J. Pipoly
Combretaceae: C.A. Stace
Commelinaceae: R.B. Faden
Connaraceae: C.L. Kelloff
Convolvulaceae: D.F. Austin, T. Hollowell, R.L. Liesner, M.T. Strong
Costaceae: P.J.M. Maas
Cucurbitaceae: E. Lucas, M. Nee, D. Zappi
Cyclanthaceae: J.K. Boggan, S. Stern
Cyperaceae: K. Camelbeke, K.M. James, G. Moore, R. Kral, M.T. Strong, W.W. Thomas
Cyrillaceae: J.K. Boggan
Dichapetalaceae: P. Acevedo, P. Hiepko, G.T. Prance
Dilleniaceae: G. Aymard, C.L. Kelloff, A.E. Newton
Dioscoreaceae: T. Hollowell
Droseraceae: C.L. Kelloff
Ericaceae: J. Luteyn, P.E. Berry
Eriocaulaceae: M. Hakki, R. Kral, T. McDowell, M.T. Strong
Erythroxylaceae: P.E. Berry
Euphorbiaceae: W.S. Armbruster, M.J.M. Christenhusz, H.-J. Esser, L.J. Gillespie, P.J.M. Maas, J. Murillo, W. Punt, G.L. Webster
Fabaceae-Caesal.: R.C. Barneby, H.D. Clarke, J. Grimes, G.P. Lewis, T. McDowell, K. Redden
Fabaceae-Mimos.: R.C. Barneby, J. Grimes, C.L. Kelloff, O. Poncy, K. Redden
Fabaceae-Papil.: R.C. Barneby, A.M. Carvalho, H.D. Clarke, J. Grimes, C.L. Kelloff, M. Lavin, G.P. Lewis, R.L. Liesner, H.C. de Lima, K. Redden, V.E. Rudd
Flacourtiaceae: M.H. Alford, M.J. Jansen-Jacobs, R.L. Liesner
Gentianaceae: L. Cobb., C. Gleason, J. Kallunki, C.L. Kelloff, P.J.M. Maas, L. Struwe
Gesneriaceae: C. Feuillet, L.E. Skog
Haemodoraceae: J.K. Boggan
Heliconiaceae: W.J. Kress, T. McDowell
Hippocrateaceae: A.R.A. Görts-van Rijn, J.A. Lombardi, A.M.W. Mennega
Humiriaceae: J. Cuatrecasas, R.L. Liesner, E.A. Tripp
Hydrocharitaceae: M.T. Strong
Icacinaceae: A. Goldberg, A.C. de Roon
Iridaceae: J.K. Boggan, M.T. Strong
Lacistemataceae: C.C. Berg, A.R.A. Görts-van Rijn, J.J. Pipoly, C. Todzia
Lamiaceae: R.M. Harley
Lauraceae: J. Rohwer, H. van der Werff, T. Hollowell
Lecythidaceae: S. Mori, H.D. Clarke, J. Rhodes, S. Stern
Lentibulariaceae: C.L. Kelloff, P. Taylor
Liliaceae: J.K. Boggan

Loganiaceae: A.E. Brant, R.K. Shannon
Loranthaceae: J.W. Kuijt
Malpighiaceae: C. Anderson, W.R. Anderson, Gates, T. Hollowell, T. McDowell
Malvaceae: L.J. Dorr, P. Fryxell, M.J. Jansen-Jacobs
Marantaceae: K. Hoenselaar, H. Kennedy, P.J.M. Maas, H.H.C. Raijmakers, M.T. Strong, J.J. Wurdack
Marcgraviaceae: A.C. de Roon, J.K. Boggan, T. Hollowell
Melastomataceae: F. Almeda, A. Freire Fierro, R.L. Liesner, D. Penneys, J.J. Wurdack
Meliaceae: T.D. Pennington
Mendonciaceae: D. Wasshausen
Menispermaceae: R.C. Barneby, P. Hiepko
Menyanthaceae: J.K. Boggan, R.A. DeFilipps
Monotaceae: L.J. Dorr
Moraceae: C.C. Berg
Myristicaceae: W.A. Rodrigues
Myrsinaceae: J.J. Pipoly
Myrtaceae: B.K. Holst
Nyctaginaceae: R.A. DeFilipps
Ochnaceae: A. Goldberg, R.L. Liesner, S. Mori, C. Sastre
Olacaceae: P. Hiepko, R.L. Liesner
Onagraceae: P.E. Berry, E. Zardini
Orchidaceae: G. Carnevali, E.A. Christenson, T. McDowell, I. Ramirez, G.A. Thomas, M.C.M. Werkhoven
Oxalidaceae: A. Lourteig, T. McDowell
Passifloraceae: C. Feuillet, T. McDowell
Phytolaccaceae: R.A. DeFilipps, C.L. Kelloff, M. Sewell
Piperaceae: R. Callejas, M.J.M. Christenhusz, A.R.A. Görts-van Rijn
Poaceae: G. Davidse, E.J. Judziewicz, C.L. Kelloff, G.A. Rua
Podostemaceae: C.L. Kelloff
Polygalaceae: A. Jacobs-Brouwer, R.L. Liesner, J.J. Wurdack
Polygonaceae: J. Brandbyge
Portulacaceae: R.A. DeFilipps
Quiinaceae: J.M. Pires
Rapateaceae: P.E. Berry, C.L. Kelloff, T. McDowell
Rhabdodendraceae: A. Goldberg
Rhamnaceae: G. Nesom
Rhizophoraceae: J.J. Floret
Rubiaceae: B. Boom, P. Delprete, C. Feuillet, M.J. Jansen-Jacobs, C.L. Kelloff, T. McDowell, J. Pruski, C.M. Taylor, J.J. Wurdack
Rutaceae: J. Kallunki
Sabiaceae: P. Hiepko
Sapindaceae: P. Acevedo
Sapotaceae: T.D. Pennington, M. Sewell
Scrophulariaceae: S. Bidgood, N.H. Holmgren, S.F. Smith, M.T. Strong
Simaroubaceae: W.W. Thomas
Siparunaceae: M. Pignal
Smilacaceae: R.A. DeFilipps, M.J. Jansen-Jacobs
Solanaceae: S. Knapp, M. Nee
Sterculiaceae: L.J. Dorr, M.J. Jansen-Jacobs
Symplocaceae: J.C. Lindeman
Theophrastaceae: J.C. Lindeman
Thurniaceae: M.T. Strong
Thymelaeaceae: M.T. Strong
Tiliaceae: M.J. Jansen-Jacobs
Trigoniaceae: C.L. Kelloff
Triuridaceae: C.L. Kelloff
Turneraceae: M.J. Jansen-Jacobs, R.L. Liesner
Ulmaceae: C.C. Berg, J.K. Boggan, L.J. Dorr, M.J. Jansen-Jacobs
Urticaceae: J.K. Boggan
Velloziaceae: A.W. Meerow
Verbenaceae: S. Atkins, M.J. Jansen-Jacobs, T. McDowell, D. Wasshausen
Violaceae: H.E. Ballard, A. Gentry, L.J. Gillespie, W.H.A. Hekking
Viscaceae: J.W. Kuijt
Vitaceae: T. Hollowell, R.L. Liesner
Vochysiaceae: S. Mori, E.A. Tripp
Xyridaceae: C.L. Kelloff, R. Kral
Zingiberaceae: W.J. Kress, P.J.M.

Collections of Special Interest

1924	Rubiaceae	*Spermacoce* cf. *glabra* Michx.; det. C.M. Taylor, 2001	First collection in the Guianas
2038	Verbenaceae	*Vitex capitata* Vahl; det. M.J. Jansen-Jacobs, 1991	First collection in Guyana
2103	Flacourtiaceae	*Neosprucea* sp.; det. M.J. Jansen-Jacobs, 1992	New species, ined. M.Alford First collection of the genus in the Guianas
2200	Erythroxylaceae	*Erythroxylum havanense* Jacq.; det. P. Berry, 1998	First collection in the Guianas
2225	Piperaceae	*Piper dilatatum* Rich.; det. R. Callejas, IV 2000	First collection in Guyana? Det. *Piper tectonifolium* by Görts-van Rijn, 2001
2227	Piperaceae	*Piper foveolatum* Kunth ex C. DC.; det. R. Callejas, IV 2000; conf. A. R.A. Görts-van Rijn, 2001	First collection in Guyana. Görts-van Rijn confirmation as *P. poiteanum* (synonym)
2327	Icacinaceae	*Pleurisanthes* cf. *artocarpi* Baill.; det. A. Goldberg, 1995	Second collection in Guyana?
2409	Hippocrateaceae	*Peritassa dulcis* (Benth.) Miers; det. J.A. Lombardi, 2003	First collection in Guyana
2412	Araceae	*Xanthosoma* cf. *striolatum* Mart. ex Schott; det. D.H. Nicolson, 1991	First collection in Guyana?
2418	Solanaceae	*Cyphomandra hartwegii* (Miers) Walp. ssp. *hartwegii*; det. M. Nee, 1994	First collection in Guyana
2638	Piperaceae	*Piper glabrescens* (Miq.) C. DC.; det. Görts-van Rijn & Christenhusz, 2001	Perhaps the second collection in the Guianas, also det. *P. pseudoglabrescens* by R. Callejas, 2000
2703	Aristolochiaceae	*Aristolochia leprieurii* Duch.; det. C. Feuillet, 2003	Third collection in Guyana, the first being by A.W. Bartlett in 1904
2751	Rubiaceae	*Malanea gabrielensis* Müll. Arg.; det. C.M. Taylor, 2002	First collection in the Guianas
2828	Schizaeaceae	*Schizaea poeppigiana* J.W. Sturm; det. C.L. Kelloff, 1991	First collection in Guyana. A rare species
2830	Thurniaceae	*Thurnia sphaerocephala* (Rudge) Hook. f. ssp. nov.; det. M.T. Strong, 2003	A new subspecies, description ined.
2833	Fabaceae-Papil.	*Swartzia invenusta* Barneby; det. R. Barneby, 1996	Type Collection

2884	Rubiaceae	*Psychotria* aff. *egensis* Müll. Arg.; det. C.M. Taylor, 1996	First record for the Guianas if confirmed
3178	Chrysobalanaceae	*Hirtella glandistipula* Ducke; det. G.T. Prance, 1998	First collection in Guyana
3276 a	Podostemaceae	*Rhyncholacis linearis* Tul.; det. C.L. Kelloff, 2003	First collection in the Guianas
3305 a	Gentianaceae	*Voyria corymbosa* Splitg. subsp. *corymbosa;* det. C.L. Kelloff, 1993	First collection in the Guianas of this subspecies
3473	Acanthaceae	*Justicia mcdowellii* Wassh.; Brittonia 54: 292. 2002	Type Collection. Named in honor of Tim McDowell
3512	Melastomataceae	*Tococa* or *Miconia* sp. nov.; det. J.J. Wurdack, 1993	Probably a new species, fide J. Wurdack
3606	Poaceae	*Andropogon* ? *glomeratus* (Walter) E. Britton, Stearns, & Poggenb.; det. E.J. Judziewicz, 1992	If this is *A. glomeratus*, it is a new record for Guianas
3764	Convolvulaceae	*Maripa paniculata* Barb. Rodr.; det. D.F. Austin, 1998	First collection in Guyana
3810	Gesneriaceae	*Paradrymonia barbata* Feuillet & L.E. Skog; det. C. Feuillet, 2000	Type Collection (see back cover)
3924	Rubiaceae	*Psychotria sandwithiana* (Steyerm.) Steyerm.; det. C.M. Taylor, 2001	First collection in the Guianas
3978	Cyperaceae	*Rhynchocladium steyermarkii* (T. Koyama) T. Koyama; det. M.T. Strong, 1991	First collection in Guyana (fide Strong)
4028	Myristicaceae	*Compsoneura ulei* Warb.; det. W.A. Rodrigues, 1994	First collection in Guyana
4269	Rubiaceae	*Coussarea leptoloba* (Spreng. ex Benth. & Hook. f.) Müll. Arg.; det. C.M. Taylor, 1993	First collection in the Guianas
4337 a	Bromeliaceae	*Vriesea heliconioides* (Kunth) Hook. ex Walp.; det. E.J. Gouda, 1997	First collection in Guyana
4347	Malpighiaceae	*Mascagnia macrodisca* (Triana & Planch.) Nied.; det. W.R. Anderson, 1992	First collection in Guyana
4455	Hippocrateaceae	*Peritassa pruinosa* (Seem.) A.C. Sm.; det. J.A. Lombardi, 2001	First collection in the Guianas
4718	Dicranaceae	*Eucamptodontopsis tortuosa* H. Rob.; det. A.E. Newton, 1994	First collection in the Guianas
4783	Malpighiaceae	*Tetrapterys pusilla* Steyerm.; det. W.R. Anderson, 1992	First collection in the Guianas

4872	Gesneriaceae	*Lampadaria rupestris* Feuillet & L.E. Skog; det. C. Feuillet, 2002	Type Collection, for the species and genus. The genus is named for the torchbearer at the Olympic Games. See front cover.
4874	Burmanniaceae	*Gymnosiphon capitatus* (Benth.) Urb.; det. C.L. Kelloff, 1992	First collection in the Guianas

Figure 4. Suroojnauth Tiwari and Vicki Funk at a stop along the Linden – Rockstone road.

PART I: NOTES ON TRIPS

Trip 1: St. Cuthberts - Rockstone, *21 January to 23 January 1990*
Collection numbers 1700 - 1827

Contributed by V.A. Funk

Tim McDowell's first field trip in Guyana was originally planned as a month-long expedition to Holitipu in the Pakaraima Mountains. The field team for that trip consisted of Lynn Gillespie (outgoing BDG resident collector), McDowell (incoming resident collector), Vicki Funk (BDG Program Director), and Suroojnauth Tiwari (University of Guyana Scientific Officer), who sat in Georgetown all through January 1990 and watched the heavy rains. No flights were able to go into the Pakaraima Mountains for a couple of weeks. Out of desperation and boredom the team undertook two short expeditions. During these trips it also rained most of the time. The first trip was to the Ituni savannas; these plants were collected on Gillespie's numbers and was treated as Trip Number 17 in the recent publication summarizing her tenure as BDG resident collector (Hollowell et al., 2003). Gillespie decided not to participate in the second trip, and it became McDowell's first in Guyana using his number series. The first part of this three-day trip was spent on the savannas near St. Cuthbert's Mission. Most of the plant collections were made in the bush islands of these savannas. Although the savannas are often dry, after the extensive rains they were inundated, and there were many depressions filled with water in the vehicle tracks.

The planned trip route was to take the road to Rockstone, cross the pontoon bridge over the Essequibo River, and to continue by road to Bartica. From Bartica, the Toyota Land Cruiser would be carried on the ferry to Parika at the mouth of the Essequibo River for a final return by road to Georgetown. At the beginning of this circuit, the road to Rockstone was muddy but passable, until just prior to the bridge, where it promptly deteriorated into a quagmire, complete with a large Bedford truck stuck up to the axles. The truck had uprooted several trees while unsuccessfully trying to winch itself out of the mud. Although the Toyota managed to traverse the first 100-meter muddy stretch by straddling deep ruts, the team was stranded at the top of a steep, muddy hill leading down to the bridge. There would be no way to control a downhill slide to the bridge.

The team decided to wait and see if the road dried out more by the next day. They negotiated the way back through the first muddy area (Figure 4). After twice becoming stuck and digging out, the team reached firm land and began to set up camp for the night. Fortunately, Mr. & Mrs. Ivan Rodriguez, an older couple living nearby in the only house on the road, invited the team to hang their hammocks inside of their house. It happens that while the couple was out over the previous week their guard and dog disappeared, and everything in the house was stolen leaving plenty of room for everyone. During the night there was another downpour, which made the road conditions worse, and caused the team to abandon all thoughts of travelling to Bartica by road. The team decided to leave all of their extra supplies with the couple that had sheltered them for the night, and they returned to Georgetown to dry out.

Trip 2: Karanambo - Surama - Karasabai, *16 February to 10 March 1990*
Collection numbers 1828 - 2217

This trip was taken in collaboration with two visiting botanists from the Smithsonian Institution, Pedro Acevedo, a specialist in lianas and the family Sapindaceae, and Christian Feuillet, a specialist in the families Passifloraceae, Aristolochiaceae, and Gesneriaceae. Their collections from this trip will be treated in a separate volume. The team also included the University of Guyana botanist S. Tiwari. They

visited several sites on or near the Rupununi Savanna, a seasonally flooded grassland covering a large portion of southwestern Guyana. The Rupununi was at that time accessible only by plane or small boat, being separated from the coastal region by a broad expanse of lowland forest and the Essequibo River. Construction had started on a new road that would connect the town of Lethem on the Brazil border with the road to Georgetown. This new road, which followed the old cattle trail, was being cut through the forest that is now included in the Iwokrama Forest. One objective of the trip was to gather opportunistic collections from the newly felled trees.

Preparations for the trip were made by McDowell, who obtained the permits to travel into the interior and to visit various Amerindian settlements, and obtained permission from the construction company to collect along the new road cut. Supplies of newspaper and ethanol for pressing and preserving specimens, kerosene, food, and cooking and camping gear along with personal backpacks were loaded onto a chartered twin-engine Islander plane at Ogle airport near Georgetown. The team flew to Karanambo, the ranch of Diane McTurk, northeast of Lethem. The McTurk family had long been cattle ranchers in the remote and sparsely inhabited Rupununi; Diane McTurk maintained a guesthouse for tourists and visitors. She assisted the team by providing a driver and Land Rover, one of very few vehicles present in the region at the time. The team enjoyed meals and lodging at McTurk's ranch along the Rupununi river and made collections locally while organizing the next stage of their trip.

After two days at Karanambo, the team departed by Land Rover on February 18 and proceeded northeast to the Amerindian village of Surama, on the northern edge of the Rupununi savanna. En route they passed the main construction headquarters for the road-building company, Paranapanema, at the village of Annai. Surama village is situated about 10 km north of the path of the new road. In Surama the team coordinated with the village captain, Mr. Sidney Allicock, who ably and graciously facilitated their visit. The village is centered on an opening of savanna surrounded by forest. The collecting team was given shelter in a large, open-walled post and beam structure that served as a village community center. Nearby was the wooden school building. The villagers' houses were dispersed through the surrounding lands. For the next week the team collected plants from the forests and patches of savanna around Surama, returning each evening to press their collections, complete field notes, and finally to bind the packets of pressed sheets with string. These were then wrapped tightly in heavy clear plastic bags, and saturated in 70% ethanol, in which they could remain stable for many weeks. Collection sites around Surama included the forests and openings around the upper Buro-Buro River, Lake Surama, and the old airstrip. Acevedo traveled with climbing gear that he used to collect liana specimens from the forest canopy. The team also carried a pole cutter with several extension segments, which they used to gather specimens from high branches. The vegetation included secondary forest, farmed clearings (mostly for cassava), margins of the creeks and lake, and the edges of the savanna openings. It was interesting to collect the broadleaf gymnosperm liana *Gnetum* (Gnetaceae, no. 2045) in "flower", though it is technically a gymnosperm and not a flowering plant. The same day they collected the blue-flowered tree *Vitex capitata* (Verbenaceae, no. 2038), a first record for Guyana.

The Surama Captain and school teacher Sydney Allicock invited the team to a student recital held on the night before their departure from the village. This was a joyful event. The two dozen or so students recited poetry and sang in chorus for the assembled village. Before leaving Surama, the collecting team made some small gifts for their hosts: several boxes of clear newsprint bifolds for the school, a spool of the red woven ribbon used in tying herbarium packets, for the women, and several of the heavy plastic collecting bags for the men. The next morning the villagers brought in three donkeys to pack out the team's load of supplies on the walk to the main road. After waiting alongside the road for two hours with their supplies, the team found a ride with a passing truck and headed northeast on the new roadbed to reach the front of the road clearing operation. There they unloaded their supplies, stowed some in the woods along the roadway, and

hauled the rest about 1 km into the woods, making their campsite along a small creek.

The construction of the Kurupukari-Lethem roadway by the Brazilian firm Paranapanema was an impressive and enormous project. A very broad swath was cleared for the road, up to 100 m across, which created a wide margin on either side of what would become a two-lane, paved highway. Apparently the wide margin was needed to protect the highway from blockage by treefalls. The forest clearing operation, which had been delayed by several rainy months, proceeded at a fierce pace, with the right-of-way advancing into the forest about 2 km per day. The tall rainforest trees were not cut down; they were simply toppled by relentless pushing from three huge D-9 Caterpillar bulldozers. Trees too big for a single bulldozer were uprooted by two or, at times, all three bulldozers pushing together. Once downed, the massive trunks were pushed to the edge of the roadway clearing, rolled up with a tangle of lianas and subcanopy trees.

The quality of collecting from these tumbled heaps of broken trees was a great disappointment to McDowell. A general collector often finds an abundance (literally a windfall) of interesting plant material in a treefall, including canopy epiphytes and flowering material from tree branches that are usually inaccessible from the ground. In this case, however, the hundreds of downed trees provided scant material, because of the violent thrashing, breakage and scraping as trees were bulldozed. The row of plant rubble was pressed against the wall of forest, with huge, broken branches piled to 40 m high. Most of the flowers, fruits or epiphytes were buried below this heap of scraped and broken sticks and logs. When occasional intact fertile material was found there was difficulty in telling if it belonged to a liana, a small tree, or to one of the giant canopy trunks. It was not possible to collect from individual trees as they fell, because the bulldozers worked at a very fast pace and quickly returned to shove these trees to the edge. The noise and fumes of diesel engines dominated the area.

Figure 5. Christian Feuillet and Pedro Acevedo travelling along the newly cleared right-of-way.of the Georgetown Lethem road.

The team collected along the new roadway for three days, returning each night to their camp in the woods, which was progressively further from the advancing road-head. Collecting was better from the sides of the small track that provided the line for the advancing main roadway. This pathway generally followed an old roadbed, which had been used over the years by four-wheel drive trucks and jeeps. In front of this narrow road the survey line for the coming highway continued to the northeast, sometimes no larger than a flagged walking trail but soon to be a broad opening. Along these smaller trails the forest was again accessible and the sounds of the bulldozers were muted. Along this section, a collection was made from a 15 m high tree with yellow flowers; this was determined to be the first collection of *Neosprucea* in the Guianas (Flacourtiaceae, no. 2103), and is likely to be described as a new species in that genus.

After three days along the road front, the team retrieved their supplies and returned along the new roadway, traveling southwest on an open Paranapanema truck (Figure 5) to the village of Annai. There they stayed two nights, housed in the policemen's quarters, a small building alongside a radio tower, not far from the Paranapanema construction headquarters. The area around Annai had been collected recently by Smithsonian botanists J. Pipoly, B. Hahn and others, so the team did not remain for long. They managed to communicate with Diane McTurk by radio, and were soon traveling across the savanna in a Land Rover she had arranged for them. Their destination was the Amerindian village of Karasabai, situated on high ground in open

savanna a few kilometers east of the Ireng River, which defines the border with Brazil.

At Karasabai the team met the village leaders and was given lodging in a cinderblock house on the western edge of the main settlement. They were warmly welcomed by Pedro Benjamin, an Amerindian who served as a government Department of Agriculture Crop and Livestock Assistant. Mr. Benjamin introduced the members of the team to several residents of the village, who showed how their staple crop, bitter cassava (*Manihot esculenta* Crantz), was processed into a large, circular flat bread by boiling, with the final product drying in the sun upon the thatched roofs of the houses. Other residents were making the traditional cassava beer, a heavy, filling fermented beverage brewed from the sweet cassava root. An experimental garden plot held various vegetables that were being grown for possible introduction to village gardens. Near the village a stand of cashew trees grew, with the curious ripe fruits hanging from the branches, bearing the small, green, curled nut from a large, orange-red, tasty fruit stalk.

Heading northeast from the village, the team collected from gallery forest along Yourora Creek, which ran through a wooded draw. Cassava plots were dispersed throughout these semi-forested areas. Heading west from the village they collected on open savanna that extended to the bluffs overlooking the Ireng River and neighboring Brazil. Tall ant nests over 1 m high, built of white sand, stood in the open savanna like apartment blocks. The low-growing shrubs of the open savanna included guava (*Psidium* species) and *Byrsonima crassifolia* (Malpighiaceae, no. 2208), a very common shrub with bright yellow flowers. According to Mr. Benjamin this plant has been used by the local Macushi Indians as a malaria remedy. The root's bark is cooked into a strong tea and taken three times daily until the malaria passes. Near the village the shrub *Erythroxylum havanense* Jacq. (Erythroxylaceae, no. 2200), a congener of the medicinal coca plant, was collected for the first time in the Guianas.

The team departed Karasabai after a week and rode by Land Rover (driven by Royal, an Amerindian working with Diane McTurk) to Annai, where they had arranged a return flight to Georgetown. Their flight out was delayed one day due to the religious holiday Pugwash, but the plane arrived the following morning to return the group to Georgetown. In Georgetown they were assisted by Harold Ameer, who served as driver and general assistant for a succession of Smithsonian botanists. In the following ten days McDowell dried the many hundreds of sheets at the herbarium of the University of Guyana and then sent them to Washington for processing and determination.

Trip 3: Kaieteur, *22 March 1990*
Collection numbers 2215 - 2217

These three fungus collections were made incidentally while McDowell and parasitologist Jean (Handy) Bowdre made a brief trip to visit Kaieteur Falls. McDowell developed a fever during this visit, limiting his collecting. Veteran Guyanese pilot Malcolm Chan-A-Sue flew the plane to and from Kaieteur.

Trip 4: Corentyne River - Orealla, *11 April to 28 April 1990*
Collection numbers 2222 - 2540

On this trip McDowell was accompanied by D. Gopaul, a staff member of the University of Guyana. They collected primarily from a logging concession held by the Baba-Grant Sawmill Company, located some 100 km south of Corriverton along the Corentyne River, which defines the eastern border of Guyana. The company's owners and staff, particularly Kimmy Rahamon and Ganesh Singh, facilitated the travel, lodging and collecting, and the Guyana Forestry Department provided additional support. This trip was arranged rather quickly after a planned trip accompanying a US Army medical detachment to the Matthews Ridge area, in the Northwest District, was postponed. The Corentyne trip took advantage of a new Evinrude 15 horsepower outboard motor received from the program coordinator at the Smithsonian.

The group first traveled on the main coastal highway from Georgetown to Berbice in a Guyana Forestry Department pickup, which was heavily loaded with equipment. They arrived at the

Berbice sawmill of the Baba-Grant Company where they met Ganesh Singh, who served as river guide and host during travels to and from the logging camp, which was located up the Corentyne River. The boat was a long, wooden riverboat with a capacity equivalent to that of the pickup truck. It was filled with the supplies: food, collecting paper, five-gallon jugs of alcohol for specimen preservation, hammocks, gasoline, pole-clippers, and other camping and collecting gear. The boat's load was then covered with a blue tarp, leaving enough room for Ganesh to drive with McDowell and Gopaul sitting front and rear.

Early the next morning they set out with the motor slowly pushing the heavy boat up the wide river. The Corentyne River forms the border between Guyana and Surinam. At that time both sanctioned and illegal trade of food and consumer goods flourished. There was also a small rebel movement in isolated areas of Surinam's forests, led by a Surinamese soldier named Brewster; this group sometimes restricted boat traffic on the river. Because of this, Ganesh landed the boat at the Guyanese Amerindian settlement Orealla and consulted with his friends regarding travel upriver. It was decided that it would be unsafe to drive the slow, supply-laden boat past the rebel checkpoint, which was situated a kilometer or so upriver on the Surinam side. With the generous help of the Orealla men, all of the supplies were hauled up the steep banks and loaded onto a flatbed farm wagon attached to a sizable tractor. Ganesh then piloted the empty boat past the rebel zone, while the Amerindians tractored the supplies, along with McDowell and Gopaul, across the savanna to meet a few kilometers upstream. For several uneventful hours the reloaded boat proceeded slowly upriver, occasionally seeing Amerindians in small canoes paddling along the shore, but passing few larger craft. Ganesh easily piloted the boat up Cow Falls due to the high water and landed at the Baba-Grant logging camp.

The logging operation selectively harvested the more valuable timber species, and so did not create sizable clear-cut areas. A fairly new East German Fortschritt four wheel drive tractor was dragged logs to a holding yard, and periodically the logs were pulled down the river into a large floating formation. The logs were typically 1.5 meters or more in diameter, and were of many different species. During this visit there was little logging activity, because it had been an extremely wet season and there was already a large number of logs on the river.

On this trip the pressed specimens were preserved with 70% ethanol; the tight bundles of sheets were soaked inside of clear, heavy plastic bags for drying in Georgetown. McDowell and Gopaul collected plants from the old-growth white sand forest, disturbed or cut over areas, and along the banks of the flooded creeks and river, most often by boat. In the forest the understory was fairly open due to the high, dense canopy. Forest collections included understory and gap trees (e.g. *Piper*, Rubiaceae, Lauraceae, Annonaceae, Melastomataceae, Lecythidaceae, Chrysobalanaceae), vines from cut areas (e.g. Sapindaceae, Convolvulaceae, *Gnetum*, Leguminosae), and epiphytes from the occasional treefall. A great variety of small trees and vines were collected from the boat along the Corentyne River and the creeks. Various cryptogams and fungi were also collected, particularly in the damp, unlit forest where there were few angiosperms in flower or fruit. The weather was mostly cloudy or rainy.

At night the crew slept in hammocks hung from the frame of an open-walled, wood floored structure, which kept the collectors and their gear dry despite the muddy surroundings. It was possible to bathe each evening at the flat riverbank, but it was also best to stay near shore and not linger in the water, because of the many 'pirae', or piranha, fish in the river. Ganesh also tossed out kitchen scraps at the same landing, and once hooked and caught an eight-inch long piranha there. On Easter the expedition's host (and co-owner of the sawmill) Kimmy Rahamon visited, and at his insistence McDowell went water-skiing on the river behind his large, high-powered wooden boat. Among problems on the trip, Gopaul developed a severe toothache soon after arrival, and used ethanol from a dropper-bottle, normally used to prime and light the big gas lantern, to anesthetize the sore tooth. Also, one day the new outboard motor required repair as the carburetor had been fouled by dirty gasoline.

After eleven days and 220 plant collections, the crew packed the boat with their gear, now mostly comprised of heavy bags of alcohol-preserved specimens, along with the little remaining food and fuel. With Ganesh driving, they headed downstream towards the coast. A stop was made for one night at White Hill, the home of John Morris Marco. Collections were made on one day at Wallaba Woods, a white sand forest and logging concession, and along nearby Potoko Creek. While travelling down river the next day, a brief stop visit was made with a long-time friend of Ganesh's, an old settler who gave the group a great quantity of ripe *Chrysophyllum* fruits from his big tree. These soft, softball-sized fruits with shiny purple-black skin are juicy and sweet, with white-sapped flesh; this white latex is characteristic of the family Sapotaceae. A cut across the middle of this fruit (a transverse section) reveals a star-like arrangement of five seeds, thus giving their local name of "star apple". With two additional plastic sacks of these fruits, the boat continued down the center of the 0.5 to 1 km-wide river.

Soon rifle shots were heard from the Surinam side of the river. This was at the very wide bend in the river that McDowell and Gopaul had avoided on the trip upriver with the overland crossing. Ganesh explained that the rebels had seen the boat and were demanding that it pull in to their checkpoint, or risk armed pursuit of the slow, loaded boat. The checkpoint was a wooden dock with a fuel tank a few feet inland, all left over from a long-past logging operation or other settlement. Two young Amerindian boys holding automatic rifles stood on the dock above the boat, barefoot and wearing running shorts. The boys asked what was in the boat, and Ganesh explained that the load was of no value to them, just dead leaves in paper for scientific study. The passengers lifted up the fuel and alcohol jugs to display their emptiness. The boys also asked about food, and the botanists answered that they were returning to the coast because they had eaten everything, and all they had was two bags of star apple. A couple of these were tossed up, and since the boys had tentatively accepted the explanations, the team carefully pushed off from the dock, turned, and continued down river.

The final stop along the river was the Orealla Amerindian settlement, where Ganesh was received as family. They collected plants in the savanna the next day, taking samples of grasses, sedges, herbs and shrubs. The following day the party returned to the main Baba-Grant Sawmill in Berbice. Gopaul went directly to the dentist to have his aching tooth extracted. The pickup truck from the Forestry Commission arrived on Saturday April 28, and carried all to Georgetown where several heavy bags of specimens were dropped off at the University of Guyana Herbarium. Over the next week the many duplicates of the 318 collection numbers were processed through the light-bulb heated plant dryers. They were then bundled and boxed for shipment to the Smithsonian for distribution for identification.

Notable collections from this trip include *Pleurisanthes* cf. *artocarpi* Baill. (Icacinaceae), the second record for Guyana; *Xanthosoma* cf. *striolatum* Mart. ex Schott (Araceae), a new record for Guyana (if positively confirmed); *Cyphomandra hartwegii* (Miers) Walp. (Solanaceae), the first record for Guyana; *Piper tectonifolium* Kunth (Piperaceae), a new record for Guyana if this determination is correct (it has also been identified as *P. dilatatum* Rich.); and *Piper foveolatum* Kunth ex C. DC., a new record for Guyana.

Trip 5: Kamarang River - Parumia - Utshi River – Holitipu, *12 May 1990 - 14 June 1990*
Collection numbers 2541-3241

Trip Planning

Lynn Gillespie, the Smithsonian's resident botanist from 1988-90, did advance planning for this trip to Paruima, on the upper Kamarang River, and outlying tepuis. Originally set for January 1990, the trip was postponed due to an extended rainy period that grounded charter flights for many weeks. Tim McDowell began renewal of trip plans several weeks before departure, as permits from government departments can take several weeks to process, and communications must be established with Amerindian village leaders or other hosts in remote areas to arrange visits and organize a team

of the essential guides and porters. Obtaining supplies of food and fuel for this trip was a challenge. Topographic maps were purchased from the national geological offices. Harold Ameer, the long-term driver for the Smithsonian's resident botanists, was instrumental in trip organization, using his taxi-driver's knowledge of Georgetown's ministries, markets and customs to expedite office visits and purchasing of provisions. D. Gopaul was the Guyanese member of the collecting team; he provided able and enthusiastic assistance throughout the planning process and the trip.

As is still true today, transport to the interior was typically by charter airplane, which was expensive, required booking far in advance, and was subject to lengthy delays or cancellation due to weather conditions and competing customers. At the time, typical charter flights to interior regions cost about $500 US each way. The twin-engine Islander airplane was the standard choice. It typically carried a cargo of 1,500 pounds including the passengers, with an additional 200 pounds, in place of the copilot, sometimes available for an extra fee. The weight of supplies is always a key constraint on logistics for any air charter trip.

Four types of supplies were carried: fuel, food, personal and camping gear, and plant collecting supplies. The Smithsonian's small outboard motor was also carried for river travel. Fuel was among the heaviest items; this included gasoline and oil for the outboard motor, and kerosene for lamps, cookstoves and specimen dryers, if plant drying in the field was planned. Purchase of food in the interior was not a practical option, and enough was packed in Georgetown for three weeks to a month of travel, amounting to considerable weight. An expedition runs on large quantities of food packed in boxes or lidded five-gallon buckets. Major items include rice, beans, crackers, canned fish and meat or salt beef in brine, cheese, tea, coffee, sugar, salt, spices and hard candies.

Camping gear included two or more tarpaulins, many ropes for constructing shelters, hammocks with mosquito nettings (custom sewn by the BDG's Carol Kelloff), kerosene lanterns and cookstoves, kitchenware, flashlights, machetes and files, candles, insect repellent, soap, and incidentals. Collecting supplies comprised a large part of the cargo's weight. These included 100 aluminum dryer corrugates, up to 5000 sheets of newsprint collecting paper, heavy plastic bags for both collecting and packaging pressed specimens, cardboards, string for binding specimen bundles, markers, and a collection notebook.

Pressed specimens were either dried in the field with kerosene stoves or preserved with 70% ethanol for drying at the University herbarium. The field dryer was custom made, consisting of a 4' x 3' rack frame of aluminum corner-stock, assembled with wingnuts and surrounded on the sides by a canvas apron to channel heat through the corrugates of the dryer plant presses. Field drying can be time-consuming but has significant advantages. Field dried specimens retain much more color than alcohol preserved material, and they is more useful for studies of pollen, extraction of DNA, or analysis of other phytochemical compounds. Field dried specimens are much lighter to pack and fly out of remote collecting localities, however the dried plants must be kept dry in the field, and time needed for the drying process must be scheduled into the trip.

Traveling to Kamarang

On May 11 McDowell and D. Gopaul flew to the Kamarang airstrip, at the confluence of the Kamarang and Mazaruni Rivers (5° 52' N, 60° 37' W). The plane was loaded to is limit, with an extra allotment (the co-pilot's weight) that was purchased.

The crew found lodging at the compound of a priest, a short distance north of the airstrip. After locating a boat to rent for the entire trip, they collected plants in the vicinity for two days. Collections were made in the gallery forests flanking the Kamarang and Mazaruni Rivers, using the pole cutters from the boat. The rivers were very high due to several wet months. There were many lianas with large stems, easily mistaken for trees, fruiting in the canopy, for example *Doliocarpus spraguei* (Dilleniaceae), *Norantea guianensis* (Marcgraviaceae), *Salacia impressifolia* (Celastraceae), *Machaerium quinata* (Fabaceae) and *Banisteriopsis lucida*

(Malpighiaceae). Various trees were collected, especially Rubiaceae, Melastomataceae, Euphorbiaceae and Leguminosae, and assorted epiphytes (ferns, bromeliads and orchids) from fallen trees.

On the Mazaruni River, about 1 km below its confluence with the Kamarang River, the team briefly visited with one of the mining operations that were common on rivers of the Potaro District. These gold miners worked the rivers from boats or small barges. They used the "torpedo dredge", a submerged metal cylinder, connected with large tubing to a pump on the boat. High-pressure water jets surrounding the torpedo dredge cut into the mud-clay river banks, and the sediment was pumped to the barge and run down across a washboard-like table to catch gold particles. These were collected using mercury. At the miners' camp the amalgam would be boiled to drive vaporize the mercury, leaving pure gold behind. Torpedo dredging destroys the river shore, leaving behind large heaps of sediment dotting the river. Trees lay tipped into the river where the bank had been removed. Nevertheless, gold mining was one of the few ways for an ambitious, hard-working individual to gain a livelihood or perhaps even get rich.

After several days of collecting everything was loaded onto the boat, and they headed up the Kamarang River accompanied by two men from the Amerindian village of Paruima, their principal destination. The river was high, running up to the trees on shores that were still forested, as gold mining operations were not permitted in the Amerindian territories. The Kamarang was less than 50 meters across, and a rather narrow band of blue sky was visible between the surrounding forests. It was a flat river with a smooth surface, and the water was tan from the heavy flooding of recent weeks. The slow trip upstream took several hours, and no other motorized boats were seen, though they passed Amerindians paddling dugout canoes close to the shores. There were seven large bends in Kamarang River between the Kamarang airstrip landing and the low waterfall below Paruima Village, which was as far as they could go in the borrowed boat.

Paruima Village

At the "Paruima Falls" below the village, the boat was unloaded and pulled onto shore. The hosts from Paruima gave assurances that the boat would be safe there, calming McDowell's concerns. They carried the supplies up the short trail, perhaps 200 m long, leading around the boulders that adjoined the falls. At the top they were met by a boat from the village of Paruima, which is just 1-2 km upstream from the falls. Arriving at Paruima in late afternoon the team hauled their supplies up the riverbank to a guesthouse where they were given lodging. Captain Lawrence Anselmo, who was the village leader and official representative to the Guyana government, coordinated the visit in Paruima.

Paruima is the last permanent settlement before reaching the Venezuelan frontier, and it provides a good access point to remote tepuis and savannas along the Venezuelan border. It is set on rolling, open ground on a small bluff above a bend in the Kamarang River. At this point the river is slow moving and deep, about 20 m wide with sandy banks. Above the village the river narrows and reenters the forests. The Amerindians of the village were Seventh Day Adventists, and accordingly they refrained from eating pork and drinking alcoholic beverages, and they kept Saturday as a day of rest. They farmed in family plots scattered some distance from the village on both sides of the river. Cassava was a staple crop, and beans and various vegetables were also grown. The village consisted of perhaps ten small houses, each a few dozen yards from the next. Those near the guesthouse were made of cinderblock with tin roofs, but other houses were constructed of local materials, with thatched roofs and wooden walls. A resident named Daphne Chambers sewed a new apron to use with the field plant dryer. Near the guesthouse a small, whitewashed cinderblock building overlooking the river served as the Army outpost for the region; it was manned by two Guyanese soldiers. They were quite isolated there, without a radio and with infrequent supplies arriving from Kamarang.

The Captain's brother, Lloyd Anselmo, was the main guide throughout the expedition in the Paruima region. He organized the team of four to five Amerindians who helped on the week-long

trips from the village, and he guided the team to collecting sites near the village. The first days in Paruima were spent organizing week-long expeditions to savannas, tepuis and forests that were accessible by foot from the village. During this time they collected from nearby localities on both sides of the river, including primary and secondary forests on Rain Mountain, the steep hill behind the village, along the river (by foot and by boat), and in disturbed areas of the village and of nearby farms. The collections included many grasses and sedges, many shrubs or small trees including several species of *Piper* and of *Psychotria*), several *Heliconia* species.

During four days of collecting around Paruima Village, Gopaul and McDowell collected 135 numbers, mostly in groups of 8 to 10 duplicates, and dried all of these collections in the village. In addition to Rain Mountain they collected in wet, mature forest with occasional farm plots on Lalluvia Creek and Falls. They collected on Waramatipu, a small forested mountain across the river north of the village, where they collected *Aristolochia leprieurii* Duch., a vine that is fairly common in French Guiana but rare in Guyana. They also collected along the banks of the Kamarang River, and on the footpath from Paruima towards Kamarang. Although the latter collections were quite diverse, they were mostly from disturbed vegetation, so included many weedy plants, including several *Solanum* species, various common legumes (e.g. *Desmodium barbatum*, *Vigna luteola*, and *Senna latifolia*), and composites (e.g. *Clibadium armani*, *Bidens cynapiifolia*, and *Erechtites valerianaefolia*). Gopaul collected thirteen species of grasses and sedges in the clearings near the village one afternoon; another afternoon five species of *Psychotria* were collected along the Kamarang River. Also common were several species of *Piper*, and species from many genera of the Melastomataceae.

Paruima to Utshi Falls and Great Falls on the Kamarang River

The first extended trip from Paruima began on Monday, May 21 1990. Five Amerindians served as guides and helped carrying supplies, with Lloyd Anselmo coordinating the group. The senior crew member, Mr. Jeronimo Thompson, had been on botanical expeditions in the region years ago with the Guyanese botanist D.B. Fanshawe, who was at the time of this trip quite elderly. Three young Amerindian men, Dexey, Alvin, and Silvio, completed the crew. They departed at noon, after dividing the sizable load among the crew. Heading southwest from the village, the group hiked briskly through forested hills and across several streams. At places wallows of the bush hog, or collared peccary (*Pecari tajacu*), were evident. These muddy depressions have a characteristic pungent odor. The bush hogs sometimes destroyed the villager's crops, rooting out their cassava plantings in forest clearings, but they were not hunted, because the Paruima Amerindians did not eat pork. The woods were shady in the afternoon and the trails were muddy due to the extended wet season. After perhaps four hours of hiking the trail crossed a small creek and ascended a steep, forested hill. At the top they continued through rolling terrain forested with many thin-trunked trees forming a closed canopy. They stopped at 5 p.m. with darkness approaching and set up camp by a stream. The crew quickly cut a dozen or more poles and built a tarpaulin-covered frame strong enough to bear the hammocks of the seven-man team. Meanwhile, Gopaul and McDowell cooked dinner, and after eating the tired crew retired for the night.

The hike continued the next morning through forests, with the soils changing from mud to white sand as they gained elevation. Walking through one area of quiet forest there was a sudden noisy clatter high in the canopy as a large flock of green parrots took flight. By early afternoon the team emerged from the continuous forest into a high, white-sand savanna. They made their base camp in a grove of trees within sight of the main forest and some 300 m from the Utshi River to the south (Figure 6). Large turbinate fruits of a type of Sapotaceae tree lay about on the shady ground. Gopaul began meal preparations and McDowell started exploring the forest edge while the guides built the camp. Gathering poles for the camp frame was more difficult than it had been the previous night in the forest, and one crew member cut his hand in the process, but soon a solid open shelter was completed, hammocks strung, and a fire built. There on the high savanna the nights were much cooler than in Paruima. The

Figure 6. The Utshe River camp site with tarpaulins removed from the frame. The crew is packing their warishi backpacks in preparation for hiking.

Amerindians kept a smoky fire going all night to keep away the chill.

Plant collecting began immediately around the Utshi River camp, and in the first afternoon 41 numbers were gathered close to the campsite (McDowell 2717-2756B). Among these were white sand savanna elements including many grasses, sedges, as well as *Xyris fallax*, *Lycopodiella cernua*, *Schizaea elegans* (Figure 7), *Burmannia bicolor,* and orchids from three genera. The savanna edges included *Henriettea maroniensis* along with many other Melastomataceae, many Rubiaceae, and two *Clusia* species. The ant domatia on the small tree *Tococa guianensis* were impressive: the inflated, 4 cm long domatia at the base of the leaf blade each contained dozens of 2mm long ants.

Although it was still rainy season, it was apparent that the savanna had been burned periodically. According to Lloyd Anselmo, it was burned about three times per year, to keep it open for hunting animals and to maintain easy travel. Near the camp hilly savannas were nearly covered in rough bracken ferns, *Dicranopteris flexuosa* (Gleicheniaceae, no. 2815) a meter or more high and possibly *Pteridium aquilinum*, both of which are apparently favored by the regular burns.

On the second morning at the Utshi River camp the entire seven-man team set out for the Utshi River Falls, located a few kilometers east of the camp. When approaching the falls from the savanna the river canyon suddenly came into view. At the top of this gorge they collected what would become the type specimen for the species *Swartzia invenusta* Barneby (Fabaceae), a small tree with white flowers and orange legumes. Growing close by was the titi tree, *Cyrilla racemiflora* L., which has a range extending into both North America and the Caribbean. *Dictyostega orobanchoides* (Hook.) Miers, a small parasitic herb with minute white flowers, grew on the canyon floor. A careful climb of a

few minutes brought them to the bank of the fast flowing, yet fairly narrow, Utshi River. The spray from the rocky falls kept the river banks misted. On rocks in the river the sedges *Hypolytrum pulchrum* (Rudge) H. Pfeiff. and *Didymiandrum stellatum* (Boech.) Gilly grew, and in the flowing water *Thurnia sphaerocephala* (Rudge) Hook. f. Along the banks the large bromeliad *Brocchinia micrantha* (Baker) Mez grew, with lichens (*Cladonia signata* and *Cladina rosea*), and a rare microphyllous fern, *Schizaea poeppigiana*, which the team collected as a first record for Guyana.

The base camp was situated along a walking route from Paruima to a small town across the Venezuelan border. One evening a group of several men and women passed the camp, returning to Paruima with a load of foodstuffs from the Venezuelan stores. On Friday morning Gopaul, McDowell and the three younger Amerindians (Silvio, Dexey and Alvin) went up the trail towards Venezuela to collect. The walk began with a perilous crossing of the Utshi River. Although only about 30 meters wide and knee-deep, the clear, cold water ran very fast, and the bottom consisted of round, slick rocks of various sizes. A slip could have taken a person downstream quickly, perhaps even to the falls! A walking stick was most helpful in fording the river.

Figure 7. The fern *Schizaea elegans* (Vahl) Sw. (Schizaeaceae) collected on white sand savanna / forest boundary near the Utshe River camp. McDowell & Anselmo 2764.

The terrain and vegetation were quite varied along this route. The trail passed in and out of forests, crossed the river and tributaries several times, and passed through many stretches of open, high white-sand savanna. Most collections were taken along the rivers or at the savanna-forest boundaries, but collections of shrubs, bromeliads, sedges and several terrestrial orchids were made from the savannas as well. After several hours they encountered an unoccupied cabin in a savanna near a stream. Beyond that stream they climbed a steep rocky slope to an open rocky savanna. They did not reach the border settlement, and turned back. By the time they reached the base camp dinner was cooked and ready. By the day's end a good number of collections (55) had been made, and they were placed in the plant dryers that evening.

Saturday May 26th was a holiday for the Seventh Day Adventist crew. The three young Amerindians, however, chose to accompany Gopaul and McDowell on a hike to Great Falls on the Kamarang. The elder guides described the route to the three younger men and they set out, traveling light with just a small lunch, a plant press, and several collecting bags. The route led south, crossing the Utshi River as the day before, but then headed slightly east, away from the frontier. They crossed wet savanna and rocky areas with white sand, skirting the forested strips along ravines whenever possible. The Amerindians led the team without use of a compass. Various shrubs grew scattered about the savanna: e.g. *Vaccinium euryanthum*, *Myrcia sylvatica*, *Ilex retusa*, and *Cybianthus fulvopulverulentus*. After winding across hills and valleys of the shrub-savanna for perhaps two hours they arrived at the Kamarang River, which had not been visible during the approach. They reached the river at the top of a large waterfall over tall boulders, the Great Falls on the Kamarang. The Falls were loud, and their terraced drop was considerable, a vertical distance of perhaps 30 meters or more. While the team ate and made some plant collections Gopaul took a few minutes to etch his initials and the date on a boulder beside the falls. After a restful hour or so at the falls they made their way back to the base camp.

The team returned to Paruima from the Utshi River on Sunday after a seven hour walk, with another hour in stops, over land that was very hilly but with more descents than climbs. The approximately two hundred numbers collected (over 1000 sheets) had all been field dried by the kerosene stoves, and the large, active crew had

consumed almost all of the food, so loads were much lighter on this trip back to the village. The next day everyone rested, regrouped and prepared for the next big walk.

Holitipu and Kaikan

On Tuesday morning May 22 the collecting team set out on a week-long hike to Holitipu, north from Paruima towards Venezuela. As on the walk to the Utshi River, the team consisted of McDowell, Gopaul and five Amerindians: Lloyd Anselmo, Dexey, Alvin, Clifton, and Lucio Thompson (the younger brother of Jeronimo Thompson). The Paruima Village Captain, Lawrence Anselmo, and his helper joined the team for the walk to Mt. Holitipu. Also accompanying the group was Deborah Hughes, a young Fulbright scholar from the United States, and her helper Eldon. This group of nine began the trip by crossing the Kamarang River at the village landing. From the sandy shore they hoisted their backpacks and walked towards Mt. Waleliwatipu, a tepui or table-topped mountain, visible to the north. The group walked for a few hours through forested slopes with occasional farm clearings, and by afternoon they arrived at a sandy area above the forest and at the foot of a steep, nearly vertical side of Mount Waleliwatipu (Figure 8). There the night's camp was set up. The Amerindians built a shelter while McDowell and Gopaul collected plants near the camp. The weather had been dry for several days, a break in the long stretch of rainy weather, and there were many plants flowering due to this recent sunshine.

The hike resumed the following day, after breaking down the camp and packing up the newly dried specimens. They started with the climb up the south face of Mt. Waleliwatipu, which followed a rocky trail of switchbacks to reach top of the 250 meter high cliff. At the top was a savanna on a level to slightly rolling plateau, with a surface of flat rock and sandy thin soils. There were no trees on the open plateau, but plentiful shrubs several meters high, vines, grasses and herbs. The high plateau's sand savanna burned often, as suggested by fire-adapted stems of various plants (e.g. *Vellozia candida, Mandevilla benthamii*) and the blackened trunks of some shrubs and small trees. Where the plateau sloped more steeply there were small, fast flowing streams. Ravine forests of small trees grew along the stream banks in areas low enough to be sheltered from the wind. The day was sunny but not hot. In mid-afternoon the team set up camp in a small, protected tree island near Wanuch Creek, (called Grass Creek or Paru Creek by the guides), about 7 km west of Mt. Holitipu's summit.

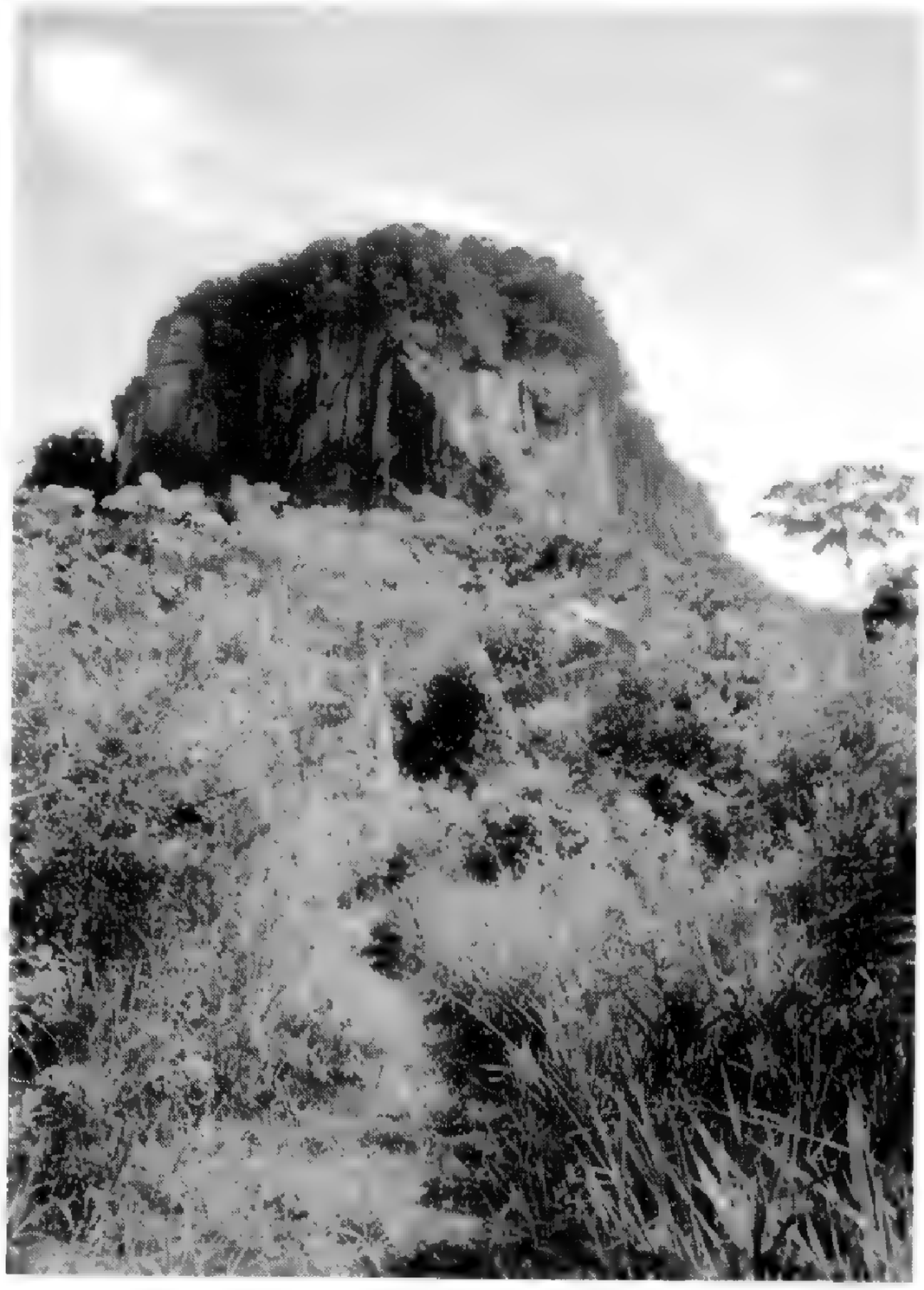


Figure 8. The summit of Mount Waleliwatipu, about 7 km north of Paruima Village, where the collecting team spent the first night out of the village. This is the collection site for McDowell et al. 2930 to 3000.

Because the group was large, the members were able to collect and process many specimens and still set up new camps, cook meals, and move each day. The diversity of habitats (savanna, tree islands, streams, and cliff walls), together with the sunny weather, all favored the plant collecting. In addition to the abundance of familiar tropical families such as Melastomataceae and Rubiaceae, the team encountered, in both flower and fruit, several woody Ericaceae including *Vaccinium puberulum, Psammisia guianensis, Bejaria sprucei* and *Cavendishia callista.*

On the third day out from Paruima the team hiked to a new camp about one kilometer from the summit of Mt. Holitipu. Walking was pleasant on the open plateau. A variety of herbs were collected from the often-burned, wet, sandy savanna, including specimens from the families Rapateaceae, Xyridaceae, and Asteraceae. Most of the tree and shrub collections came from the forested ravines. The base camp at the base of Mt. Holitipu was kept for the next three days.

On the first morning they ascended to the top of Mt. Holitipu, which was a plateau with wet savanna vegetation. The most common small tree there was the legume *Dicymbe fraterna* (McDowell, Hughs & Gopaul 3042), which grew to approximately 4 meters tall. Other shrubs, including many Melastomataceae, were less than two meters high. From the ground they collected the hemiepiphyte *Norantea* cf. *tepuiensis* (Marcgraviaceae, McDowell M3040), called "Pirwayi" in the Arecuna Amerindian language. The Amerindians used this for making bent-wood chairs and backpack ("warishi") frames. The sundew *Drosera roraimae* and the large bladderwort *Utricularia humboldtii* grew on the wet rocks.

Saturday was again a day off for the Amerindian crew. The two older Amerindians, Lloyd Anselmo and Lucio Thompson, stayed at the Holitipu camp while the rest of the group walked on to the settlement of Kaikan, at the Venezuelan border. Traveling light, with supplies for two nights out, they arrived at Kaikan before dusk. Kaikan was a very small settlement, just a handful of houses and one small shop. The collecting team went out on Sunday morning, with Captain Anselmo and his helper remaining in Kaikan. That day collections were made from Piaitmatipu south of Kaikan, on rocky white sand savanna and wet, forested slopes, as well as around "Macaw Creek" where the team camped for the night.

The next day they hiked back to the Mt. Holitipu base camp. En route collections were made from the savanna of Karabo Mountain, and from the low forests along the Karabo River and its smaller tributaries. The collections that had been accumulated on the walk back from Kaikan over the past two days were dried at the Mt. Holitipu base camp the next day. The following morning (Tuesday 5 June) they departed from Mt. Holitipu and began the return walk to Paruima. After a full day's walk they reached the base of Mt. Waleliwatipu, and stayed at the camp that was built for the first night out. They arrived back at Paruima late the next afternoon, and were ferried across the river to the village just at dusk. Everyone was tired but glad to be back from a strenuous, though very rewarding, hike.

McDowell and Gopaul left Paruima on June 7 accompanied by Deborah Hughes and Eldon, transferring their supplies and collections to the borrowed boat that awaited them at the foot of the Paruima Falls. They stayed five days at the Amerindian village of Waramadan, approximately 22 kilometers upstream from the Kamarang airstrip, collecting 125 numbers from the white sand savanna, flooded riverbanks, and disturbed areas near the village. After spending their final night at the Church compound near the airstrip, they departed Kamarang on June 14 on a one-way charter flight with a great volume of dried plant packs and empty fuel jugs filling the Islander.

The entire expedition had lasted four and one-half weeks, they returned with 800 collections, most in sets of 8-10 duplicates. Bassett Maguire had visited the Holitipu (Sawaranka-Tipu) area in November 1951 and made approximately 140 collections; in October 1960 Stephan S. Tillett, with C.L. Tillett and Rufus Boyan, made approximately 180 collections on an expedition to the Utshi River from Paruima. Paul Maas also collected approximately 180 numbers in the vicinity of Mt. Aymatoi in October 1981. It is useful that this trip was undertaken in the rainy season as well as a different time of year than any of the preceding major collecting trips. This added substantially to the specimens previously collected in this area.

Trip 6: Kurupukari – Rupununi R. and Mahdia - Eagle Mountain, *18 September to 19 October 1990*

Collection numbers 3250 - 3637

Transportation is often the limiting factor for botanists seeking to collect at remote localities of botanical interest. This was certainly true in Guyana prior to the construction of new roads in the early 1990s, particularly the major road from Georgetown on the coast across the center of Guyana to Lethem on the Brazil border. In September 1990, following a break from field work to return to the US, McDowell and Gopaul joined with an organized group of Canadian students. The group, Youth Challenge International (YCI), operates a travel program for college-aged students. The group leader was interested in including plant collecting in the YCI activities, and invited McDowell to join their group for a month-long circuit to several localities in the interior. Transportation and food was provided by YCI, and several of their students assisted in making plant collections (Plate 4). YCI worked closely with the Canadian mineral exploration company Golden Star, which provided much of the logistical support for the group.

The YCI group traveled in two British 5-ton, four-wheel drive Bedford trucks, the standard supply vehicles in Guyana's interior. They left Georgetown around midday of September 18, stopping for water at the Banks Brewery on the way out of town, and proceeding south towards Timehri and Linden to the Essequibo River. About eight students traveled with the group. McDowell and Gopaul followed with Bob Brown, a local naturalist, in his Land Rover. After delays for removal of treefalls and repair of a marginal bridge over a small creek, the group finally reached the Essequibo River at Fairview Landing and camped for the night. The YCI group had brought three sturdy, inflatable dinghies with outboard motors that were readied and loaded for the trip upriver. Augustus Andress, an Amerindian from the village of Kurupukari, upriver, joined the group and served as the river guide. He led the navigation of the small boats through various rapids and rocky stretches on the Essequibo. The group stopped and camped for the first night along the riverbank, sleeping without shelter under clear skies.

The next day they stopped for lunch at a small, rocky island, approximately 30 m long, where McDowell collected a few specimens, including *Rhyncholacis linearis* (Podostemaceae, no. 3276a), apparently the first collection of this species for the Guianas. It is a low herb, to 12 cm high, which covered the granite rocks in the rapids of the Essequibo. On the slightly higher rocks the plants were brown with open fruits, while the plants on the lower rocks, still washed by the river's currents, bore small delicate flowers with lavender stamens. After lunch the group continued a short distance upriver to an island, perhaps 100 m long, where they set up camp. These islands were opposite the Amerindian settlement of Kurupukari, which was a dispersed village of thatched, wooden houses and farms in clearings and secondary forest on the east side of the Essequibo.

Figure 9. Marakapan Mountain, on the Rupununi River between Annai Village and the Rewa River.

For several days the group remained at this campsite due to the effects of the difficult roads and slow communications on YCI plans. During this time McDowell and Gopaul collected from the island, along the Essequibo river, and from the Kurupukari vicinity. A trail led from the village to the survey lines for the new highway being constructed by the Paranapanema Company. The route was flagged but not yet cut through the tall forest on white sand. These collections included the first voucher from in Guyana of *Voyria corymbosa* subspecies *corymbosa* (Gentianaceae, no. 3305a), a small, white-flowered, saprophytic herb without chlorophyll.

The group traveled upriver to Kurupukari Falls, collecting along the riverbank, finding many lianas from a variety of plant families: Bignoniaceae, Fabaceae, Sapindaceae, Euphorbiaceae and Combretaceae. They collected

from clearings downstream with names obviously given by the Amerindians: Whiteman's Landing and Government Landing. They also collected from the edges of old forest beside disturbed riverbanks near Cashew Falls and Apoteri, where the Rupununi River meets the Essequibo. The YCI group had originally intended to travel by mountain bike along the new highway, through what is now the Iwokrama Forest Reserve, to the Rupununi savannas, but this was not possible. Instead, the group hiked from opposite Kurupukari to the head of the new road, and then rode by truck south to the McTurk ranch at Karanambo. From there they were taken by boat down the Rupununi River past Makarapan Mountain (Figure 9) to the Essequibo River for a long ride downstream to the Potaro River and finally up to the bridge of the road from Bartica to Mahdia over the Potaro. There they disembarked and rode by Bedford truck for the approximately ten km to Mahdia.

Mahdia is a small town centered on a parade ground surrounded by sturdy, wooden government buildings. It is a principal transport point in the regional mining industry, and was at the time the farthest point accessible by large truck. Several shops in Mahdia purchased gold from independent miners and provided them with supplies. Golden Star had a large camp near Mahdia and had performed considerable mineral surveys in the area. There was also a great deal of activity by independent miners. The environmental impacts of the mining were profound in places, with landscapes of smoldering piles of trees between the heaps of soil tailings and muddy pits.

Beyond the intensely disturbed sites there were areas of secondary forest in rolling, white sand hills. McDowell and Gopaul collected several days near the base of Eagle Mountain. A collection made from the upper slopes of Eagle Mountain became the type specimen of *Justicia mcdowellii* Wassh. (Acanthaceae, McDowell and Gopaul no. 3473, see page 4). McDowell and Gopaul 3512 was collected along the Potaro – Konawaruk Road at the base of Eagle Mountain. This specimen was considered by John Wurdack, the late specialist in the Melastomataceae, to likely be a new species of *Miconia* or *Tococa*, however the specimen was in bud and not suitable for description. Any botanists who visit this accessible region should be aware of this specimen, held at US, and attempt to recollect this species in flower.

Later, the collecting group moved to a camp along Elizabeth Creek, where the land was rolling, with areas of white sand and swampy low ground. The area had been logged long ago, and there were scattered trenches from recent mineral exploration. *Cecropia* trees beside the camp testified to past disturbances. In some clearings the soil was red clay, probably as a result of mining. Along the road between the camp and Elizabeth Creek they collected a tall grass that has been tentatively identified as *Andropogon glomeratus* (Walter) E. Britton, Stearns, & Poggenb. (McDowell and Gopaul 3606); this would be the first collection in the Guianas of this species, which is widespread in southern North America and Central America but only scattered in northern South America. In the past the plants of this area had been lightly collected by botanists passing through, including D.B. Fanshawe in the early 1940's for the Guyana Forestry Department, and Bassett Maguire in October 1951.

McDowell and Gopaul returned from Mahdia to Georgetown on October 19 by truck. They arranged this transport with a local merchant, L.D. Persaud, whose truck was returning after a supply run for Golden Star. They brought back 385 collections, which included many interesting specimens.

Trip 7: Eping River I, ***7 November to 15 November 1990***

Collection numbers 3638-3798

McDowell and Gopaul traveled with Golden Star Resources, a Canadian mineral exploration company with several projects in Guyana, to their Eping River camp, about 3 km upstream from the Eping River's confluence with the Mazaruni River. The Golden Star company generously provided transportation to as well as food and lodging at the camp. McDowell flew to the camp on 7 November (Wednesday) on the chartered supply plane, but this filled the small Islander twin-engine's capacity. Gopaul came in with a supply run arriving three days later (Saturday 10

November), bringing with him additional collecting materials that hadn't fit on the flight. For this trip the collections were field dried rather than preserving bundles of sheets in 70% ethanol.

Golden Star's Eping River Camp was set on level ground about 20 feet above the Eping River. It included a large tarpaulin-covered area roughly 15 x 20 m, with beds and hammocks in one area, and a row of dining tables along one side. A kitchen area with refrigerator, sink, and wood fireplace stood opposite the dining area. A television, for use with movie videos, faced the tables. The crew area slept up to 20 workers, who were Amerindians from settlements in the region. Bathing was done at the river landing. One new wooden building with a drawing and map room housed the geologists' office. The small airstrip was a short distance away across the river and was accessed by dirt road. The camp communicated regularly with the Georgetown office by short wave radio. Golden Star owned exploration rights to an area about 3 km long, reaching the Mazaruni River. Their work entailed extracting samples, typically cores, from regular points on a grid covering the property. The Amerindian workers had cut 'lines', walkable passages, for the grid, and with supervision of the camp geologist, extracted the core samples. They also maintained the camp, chain-sawed board lumber from trees for use at the camp, and preformed various other jobs.

McDowell and Gopaul collected from the white sand forests both on and off the Golden Star site. They also traveled upstream to collect from the narrow creeks and dense woods in the vicinity. This area was slightly undulating, with swamps in low spots and drier sandy soil on the small rises. The canopy was closed, but the understory was rather dense, and walking was difficult except on the cleared lines, trails and roads. The weather had been fairly wet and relatively few plants were flowering at or near the ground. McDowell took many cryptogams collections, including mosses, ferns, and fungi. Treefalls and branchfalls offered good collections of orchids and other epiphytes, sometimes with several species of tiny orchids on

Figure 10. Allison Stobey holding specimens of McDowell and Stobey 4006, *Spathanthus unilateralis* (Rudge) Desv. (Rapateaceae) on the left, and 4007, *Thurnia sphaerocephala* (Rudge) Hook. f. (Thurniaceae) on the right.

a single tree (e.g. McDowell and Gopaul numbers 3697, 3698, & 3699). The understory trees included the common families Rubiaceae, Fabaceae and Myrtaceae, but also occasional Annonaceae (*Duguetia*, *Anaxagorea*, etc.). The low, wet ground was ideal for several species of the Guianan monocot family Rapateaceae, including *Rapatea paludosa* (no. 3671) and *Spathanthus unilateralis* (no. 3672), with their characteristic mucilaginous leaf axils. *Maripa paniculata* Barb. Rodr. (Convolvulaceae, no. 3764), a white flowered liana hanging from large trees, was collected for the first time in Guyana on this trip. McDowell made a second collection of this species a few months later during his second trip to the Eping River area.

McDowell's collecting trip ended abruptly with his sudden, severe toothache on the morning of November 16th. While tending the kerosene stoves under the plant dryer McDowell, distracted by the toothache, set alight the cloth apron that surrounded the dryer presses. This led him to regard the toothache as a medical emergency, and as luck had it there was a supply flight returning to Georgetown later that morning. Gopaul returned to Georgetown the following day, traveling by boat and truck with the remaining supplies. In the next week McDowell's tooth was remedied by a root canal procedure. The ten day trip returned with 160 numbers of field-dried specimens, with up to 11 duplicates each.

Trip 8: Eping River II, *25 January 1991 to 22 February 1991*

Collection numbers 3799 - 4060

Golden Star Resources, which facilitated the previous collecting trip, again provided transport to their Eping River Camp, and the company geologists provided great support. McDowell traveled on a Golden Star supply truck from Georgetown to the Red Hill camp on the Mazaruni River. Allison Stobey, of the Guyana Forestry Commission (Figure 10), also joined this expedition. Due to prior commitments, Stobey joined the trip the following Wednesday (January 30), arriving at the Eping River camp on a supply plane. Meanwhile, McDowell made some collections near the Eping River camp and along the riverbanks en route to other Golden Star sites. On Sunday 27 January he accompanied Jim Richards, the geologist for the Eping River camp, on a quick boat trip to Kurupong Landing to pick up another geologist.

For this trip McDowell intended to collect from the higher ground and a tepui near the headwaters of the Eping River. Using a Golden Star boat with motor and captain, McDowell and Stobey visited "Eping Landing", a small settlement about an hour upstream from the Golden Star camp. With the help of the local shopkeeper, they were able to recruit a crew of four men to work as guides and supply carriers for the hike up the mountain. The men were "pork-knockers", independent miners from Georgetown or other coastal towns, who prospected for gold and diamonds in the mountains, often using no more equipment than a shovel, a pan and a jar of mercury to "catch" the gold. After lining up the crew, McDowell and Stobey returned to the Golden Star camp to pack the supplies they would need on this part of the trip.

On 2 February McDowell and Stobey returned to Eping Landing and set out with their new crew, which included Alwyn Agaard, Rudolph Kingston, Oswald Williams, and Eon Grazette. Supplies and collecting materials were divided into separate loads and the team proceeded up the difficult, steep trail to the "riverhead" base camp near the headwaters of the Eping River. This area is supposedly accessible by boat at times of very high water, which seemed preferable to the steep and narrow foot trail. Just before reaching the camp the crew forded the river, which was about a meter deep in places, holding their backpacks high as they crossed.

They camped and collected plants at the riverhead camp for two days. It was an area of steep slopes along the river gorge. The trail cut across narrow draws where small streams descended to the river. The shade of the closed canopy kept the ground damp. In this area the type collection was made of *Paradrymonia barbata* Feuillet & L.E. Skog (Gesneriaceae, McDowell and Stobey 3810, pictured on the back cover), a small succulent epiphyte growing on a small tree in a light gap. Rain delayed the team from continuing up the mountain for an extra day,

so Stobey and McDowell collected for another day along the gorge of the west branch of the Eping River.

The trip proceeded to a higher valley at the foot of "Mt. Raschaxe", on the eastern edge of the Merume Mountain Range. There they set up camp and remained for about one week. This area, the "Mako" camp, was a relatively flat, narrow strip with the Eping River along one side and a steep-walled hill on the other. Miners' campsites were scattered in disturbed vegetation along the river, with occasional tall trees with epiphytes such as birds nest fern (*Asplenium serratum*) growing in the branches. Old and recent mining pits testified to extensive mining activity, apparently over many years. The team collected from the river valley and lower slopes of the adjacent mountain, but their attempts to reach the top of this steep-sided plateau were unsuccessful. According to several of the pork-knockers in the area, years ago during the colonial administration the trails leading up this tepui had been maintained. These trails had now disappeared, and no one in the area could be found able to lead the team to the top of the plateau. A second effort, led by a miner named Michael (nicknamed "Chinaman"), brought the team to a sheer cliff about ten meters below the top, but no "line" up could be found, and the team returned at dusk to their camp.

Notable collections from the Mako camp area included *Psychotria sandwithiana* (Steyerm.) Steyerm. (Rubiaceae, McDowell and Stobey 3924), the first collection in the Guianas; this species was collected again on McDowell's Ebini Mountain expedition a few months later. Also, *Rhynchocladium steyermarkii* (T. Koyama) T. Koyama (Cyperaceae, no. 3978) was collected below Mt. Raschaxe for the first time in Guyana. With food supplies running low, the team made the rough hike down to the Eping River landing, arriving as night fell. McDowell paid the crew for their work and arranged a boat for the short trip back to the Golden Star camp. From there McDowell collected for a final day, from the forests along the Perenong River, where the small, white-flowered tree *Compsoneura ulei* Warb. (Myristicaceae, no. 4028) was collected in Guyana for the first time. McDowell and Stobey returned to Georgetown by plane from the Golden Star camp.

Trip 9: Tapacuma, *4 March 1991 to 6 March 1991*

Collection numbers 4061 - 4149

Botanists John Wiersema (U.S. Department of Agriculture) and Charles Horn (Newberry College) accompanied McDowell and Gopaul on two short collecting trips to several freshwater localities in Guyana's coastal region. The visiting botanists specialize in aquatic plants in the families Cabombaceae, Nelumbonaceae and Nymphaeaceae (Wiersema) and Pontederiaceae (Horn). D. Gopaul and the University of Guyana helped arrange collecting permits, overnight lodging and boat rentals for these trips. For the first trip they traveled by a hired minivan, carrying the Smithsonian's small outboard motor. Travelling west, they crossed the Demerara River Bridge, drove to the town of Parika, and then proceeded by wooden boat with the outboard motor. They crossed the wide mouth of the Essequibo River, navigating around its large islands. They then headed up Tapacuma Creek to Lake Tapacuma. Continuing along canals via Red Lock to Mainstay Lake, they reached Copoey Lake. While Horn and Wiersema took collections of aquatic plants, McDowell and Gopaul collected various vines, trees, shrubs and herbs growing along the canals or on the sandy ground in island areas. Three days of collecting yielded 85 numbers for McDowell's series, with additional collections recorded by Wiersema and Horn.

Trip 10: East Demerara Water Conservancy, *8 March 1991 to 9 March 1991*

Collection numbers 4150 - 4173

This was the second short trip with the crew of Wiersema, Horn, Gopaul and McDowell. They traveled by hired car east along the coast to the East Demerara Water Conservancy. This area acts as a shallow reservoir for water for the capital, Georgetown. After moving their supplies to a rented boat and attaching the BDG's outboard motor, the group passed slowly along the boundary canals and to Lama Creek. The water was free of sediment, but a dark coffee color due to plant tannins. The land was flat and sandy, with

secondary forest growing on higher ground. They collected various herbs found in floating mats of vegetation, such as *Habenaria fastor* (Orchidaceae, no. 4152) and *Xyris laxifolia* (Xyridaceae, no. 4151), and others with floating leaves that were rooted in the muddy bottom, for example *Nymphoides indica* (Menyanthaceae, no. 4159, Plate 1). *Utricularia foliosa* and *U. myriocista* (Lentibulariaceae, nos. 4161 and 4162) were collected floating at the surface, with their flowers (yellow and pink respectively) held on upright stalks to 15 cm tall. The team spent one night at the East Demerara Water Conservancy's guest house, a graceful, strong wooden building on a bit of high ground amidst the waterways. They returned to Georgetown after a second day of collecting. The plant collections were processed at the UG Herbarium and duplicates were then shipped to the Smithsonian for identification and distribution by the BDG.

Trip 11: Baramita - Matthews Ridge, *3 April 1991 to 2 May 1991*

Collection numbers 4174 - 4522

The Northwest Region of Guyana is an extensive area of unbroken lowland forests sparsely inhabited by Amerindians primarily of the Carib and Arawak groups. This administrative region of Guyana had been under-collected in the past, and this expedition yielded several extensions of distribution ranges. Bassett Maguire (New York Botanical Garden) and Richard Cowan (Smithsonian) collected in the immediate Matthew's Ridge area in 1955, as did Scott Mori (New York Botanical Garden) in 1976, however neither of these expeditions went west into the upper Barima and Barama River watersheds.

After earlier plans to visit the area with an American military medical team in 1990 were suspended, McDowell arranged to collect in the region for a month in early 1991. He was accompanied by D. Gopaul (UG) and Dr. Jean Handy (listed in collection notes as J. Bowdre), a Clinical Parasitologist and Professor at the University of North Carolina, Chapel Hill School of Medicine. Dr. Handy was investigating potential scientific collaborations involving drug resistance in strains of the malaria parasite *P. falciparum*, and traveled with the support of an exploratory grant from the U.S. National Science Foundation's "Science in Developing Countries" initiative. While in Guyana she collaborated with doctors at Georgetown Hospital's Malaria Eradication Program. Building on the BDG's partnership with the University of Guyana, she presented a seminar at the Faculty of Natural Sciences entitled "Bioassays for determining resistance of parasites to antimalarial drugs". In the field she made collections of blood samples preserved in liquid nitrogen for culture of plasmodium strains, and with the support of the government of Guyana's Malaria Eradication program, distributed antimalarial medicine and collected blood tests (smears) for examination by hospital personnel.

The team first flew by chartered flight from Ogle Airport near Georgetown to Matthews Ridge. Arrangements were made for the return leg of the charter flight to be purchased by the non-profit organization Médecins Sans Frontières (Doctors Without Borders), to return staff members from Matthews Ridge. During the stopover in Matthews Ridge the team arranged for Dr. Handy's liquid nitrogen tank (a large insulated thermos unit) to be stored at the government clinic for use later in the trip. The flight from Matthews Ridge to the small Amerindian village of Baramita was a rather short distance, only about 35 km, but it was complicated by weather conditions. A low cloud cover blanketed the unbroken canopy of tropical forest. The pilot, flying the twin-engine Islander without aid of radio signals or GPS, had to duck beneath the cloud cover several times in search of the small airstrip. With fuel limiting the search, they plane was about to return to Matthews Ridge and try on a later date, when the narrow clearing of the grass airstrip was finally sighted.

Several government buildings of 1950s vintage flanked the Baramita airstrip; they were solid, broad, single-level wooden houses upon 2 m tall pilings. The team met Mr. E. Norville, an officer of the government's Malaria Eradication Program, and arranged housing in a building near the end of the airstrip. The field plant dryers were set up in the open space under the building. For several days they collected from the forests around Baramita, while a crew was assembled for the extended hike towards the Venezuelan border. As usual, McDowell coordinated with the village captain to line up the team of guides who would

help carry supplies and set up camps. The day trips around Baramita covered the lowland forests along trails to sites of abandoned mines such as "Millionaire" and "Old World". The latter included a large, swampy area that had once been a man-made lake for landing seaplanes. Collections from these areas included many monocots, with *Heliconia* (five species) and *Costus* (four species) being particularly diverse. Among the subcanopy, trees species from four genera of Annonaceae (*Duguetia*, *Anaxagorea*, *Rollinia* and *Unonopsis*) were collected. Many ferns, grasses and sedges were also collected. Near the overgrown site of the Old World mining operation they collected the small tree *Coussarea leptoloba*, (Rubiaceae, no. 4269) a first record for the Guianas.

On April 7 the team began a week-long trip with the two-hour walk to the village of Aranka. Serving as guides and "draggers" were the Amerindians Walter Diamond, Winston Baird, and Stanley Solomon, the Village Captain of Aranka. A tarp shelter was built near Aranka Creek and hammocks were hung from the side-poles while dinner was prepared on kerosene stoves. As always, the team's food, camping gear, and tools were brought in from Georgetown, including extra hammocks and machetes for the guides. Mosquitoes were ubiquitous and malaria was endemic in the area, so the customized mosquito nets for hammocks were absolutely essential. With the shelter up and hammocks strung, Gopaul served the team a hearty dinner of rice and beans garnished with meat or fish, known in Guyana as a "cook-up".

For several days the team collected from forests and farms around Aranka. Their crops were raised in small clearings, in typical rotating "slash and burn" fashion. The principal cultivated plants were the root crops cassava (*Manihot esculenta*) and eddoes (*Colocasia esculenta*). These were planted amidst the often large trunks of fallen trees, in cleared areas of one-half hectare or less. Like the village's houses, the clearings were dispersed across a wide area of forest and connected by narrow footpaths. From the woods adjoining these clearings collections were made of the bromeliad *Vriesea heliconioides* (Bromeliaceae, no. 4337) and the liana *Mascagnia macrodisca* (Malpighiaceae, no. 4347), both first records for Guyana.

The Amerindian members of the crew took an active interest in the plant collecting. Not only did they help in finding flowering and fruiting specimens, but they often provided McDowell with common names (in Carib or English) and medicinal or other uses for these species. Examples of these, taken from McDowell's field notes, include the tree *Unonopsis* sp. (Annonaceae, no. 4350), called "Black Yariyara", with the juice of its inner bark pressed and drunk as a snake-bite remedy; the common terrestrial fern *Pityrogramma calomelanos* (Adiantaceae, no. 4436), "Wild Moran", whose leaves were crushed and applied to wounds for rapid healing; and an unidentified tree collected in sterile condition (Caryocaraceae, no. 4445), which was used for the removal of injured or dead teeth. This last medicinal plant was referred to as "extraction bark". As reported to McDowell by his Amerindian guides, the inner bark was scraped into a pulp, which was placed upon or into a bad tooth, causing the tooth to dissolve within two to three days.

The team was well received at Aranka village. Word went out that anti-malarial medicine was available from Jean Handy and many villagers requested the chloroquine and gave blood samples for later examination in Georgetown. Dr. Handy had brought an instant camera with her, and her offer to take photographs for the villagers was met with excitement. Gopaul organized the photo session for later in the day, and the local families returned in fancy outfits. The ladies' cheeks were brightly rouged with the red coloring from seeds of *Bixa orellana* (Bixaceae), a dye widely used in America in cosmetics and as a coloring in foods such as cheddar cheese. The family photos were greatly appreciated by the villagers, most of whom had little or no access to photographic equipment.

From Aranka the team proceeded to the west, with the land becoming hillier towards the Venezuelan border. They camped at Barima Head and then at Powis Creek, and collected along the Barima River and Whana Creek. At the Powis Creek campsite the Red Howler monkeys could be heard at night, and were seen eating fruit from

an unidentified tree (Elaeocarpaceae, no. 4449). At one point several members of the team walked to a small shop at the Venezuelan border that sold colas, cigarettes and a few canned or packaged foods. In front of the shop was a small landing pad for the helicopters that supplied the store. A bit further west there was mining activity, but no roads extended to that point on the frontier.

The team returned on foot to their base at the Baramita airstrip. Between Aranka and Baramita they encountered a large Bushmaster snake (*Lachesis muta*) on the trail. The Amerindians, with their customary considerate manner, asked McDowell what he preferred to do with the dangerous snake, but he replied "Whatever you would normally do." Because the deadly snake was blocking the trail, which was used regularly by children and others, they decided to kill it, and did so with in a somber and respectful manner. After asking if anyone wanted the snakeskin, Gopaul proceeded to skin the snake, which was more than 2 meters long. The guides appeared to be repulsed by this, and covered their noses and mouths with handkerchiefs during the process.

After a day of reorganizing collections and supplies in Baramita, the team proceeded on foot to Matthews Ridge, a two day walk. At Matthews Ridge they were hosted at the Government House, a modern two story cinderblock and glass building that was formerly a residence for the geologists of the local mining operation. Manganese was abundant in the region, and the unpaved roads near the house were scattered with small, round metallic spheres of ore. The Government House was situated near the airport at the edge of the town. The Amerindian crew met with McDowell, Gopaul and Handy for a celebratory lunch at King's store, and after receiving payment for their service, the Amerindians returned on foot to their villages.

Matthews Ridge had been developed as a metal mining town. It was connected by a train, still in service though somewhat unpredictable, to river ferry transportation at the port town of Port Kaituma where ferry connections could be made to Georgetown. In Matthews Ridge Dr. Handy spent time with the clinic staff and took blood samples from several patients who arrived from the outlying areas for malaria treatment. One day McDowell and Handy traveled with a local health official by truck to Arakaka. There they came to an impassable bridge; its steel structure was bent and collapsed by floodwaters and debris of an old bridge below it. Beyond the bridge the road continued toward the site of the ill-fated "Jonestown" settlement.

McDowell worked on travel arrangements for the return from Matthews Ridge to Georgetown while the team collected from the farmlands and trails near Matthews Ridge. During this time near Papaya Creek, about 10 km west of Matthews Ridge, they collected the small tree *Peritassa pruinosa* (Hippocrateaceae, no. 4455), a first record for the Guianas. After several days the team secured passage back to Georgetown on the weekly government airline flight. McDowell insisted that all of their bulky baggage, mostly dried specimens, must travel with them, and they managed to squeeze all of their things aboard the small airplane. They soon reached Timehri Airport, and returned to Georgetown by taxi. Along the road to Georgetown they made a stop at a dry ice plant by the Demerara River, where Handy replenished the liquid nitrogen coolant in her thermos container to keep the blood samples well frozen.

Trip 12: North Fork River - Ebini Mountain,
16 May to 25 May 1991
Collection numbers 4805 - 4945

Contributed by Carol Kelloff

Tim McDowell organized the expedition to Ebini Mountain; the team included McDowell, Carol L. Kelloff of the BDG Program, and Allison Stobey of the Guyana Forestry Commission.

Ebini Mountain is one of the easternmost peaks of the Pakaraima Mountains, reaching about 720 m in elevation. It is located about 25 km to the east of Kaieteur Falls. Geologically it is part of the Roraima formation, composed primarily of ancient sandstones like those that Kaieteur Falls plunges over. Apparently the only previous botanical collections made there were by Bassett Maguire on 15 October 1951, when no more than 30 collections were made.

Ground transportation for this trip was arranged through Golden Star Mining. The supplies and gear were tossed into the back of an old Bedford with the team. The truck headed from Georgetown, crossing the Demerara River by the Lydia S. Burhman Bridge, a bridge on pontoons, the longest floating bridge in world. From there the truck turned south to the Mariwa River, a small tributary of the Essequibo River. The hot, dusty truck was then traded for a large boat at "Ya-Ya Landing". The boat easily accommodated the three team members, all of the gear and a few other people who had shared the drive from Georgetown. The boat traveled up the Essequibo River towards Omai, the site of a large gold mine, and pulled in close to the shore as the boatman tossed a package to a waiting miner. The boat did not stop as it was late in the day. After travelling approximately 20 km up the Essequibo, the crew headed onto the Potaro River. The gear was portaged around the falls at Tumatumari, and another boat was boarded to travel upstream to Potaro Landing. The last leg of the boat trip at night was incredible. Without city lights the cool, clear sky was alight with many stars and a silver sliver of the moon. At Potaro Landing a truck took the team to Mahdia where the expedition registered at the police station. They then headed towards Golden Star's camp just south of Mahdia. The camp was nearly deserted as Golden Star had been moving their operations to another site. Because of this the expedition was welcome to stay in the camp. It was almost midnight when all settled into the bunkhouse after a very long and adventurous day.

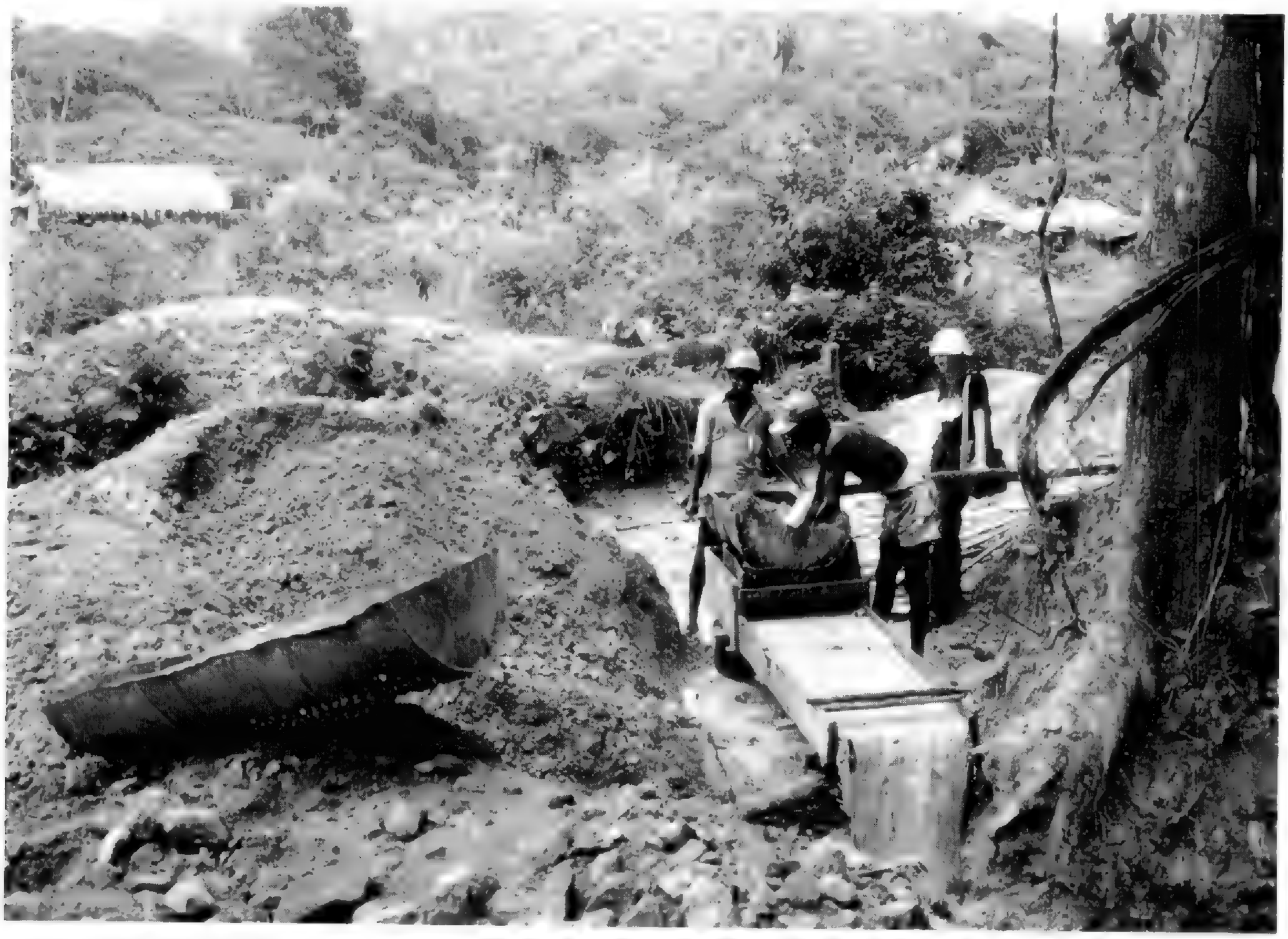


Figure 11. Operation of a gold sluice at the Adams family's "porkknocker" camp on Minihaha Creek, near the base of Ebini Mountain. Carol Kelloff is standing to the right.

The next day they explored the town of Mahdia, searching for guides that knew of a line or trail up Ebini Mountain. The younger Amerindians never ventured up Ebini and could not help. The team finally found two porkknockers (gold miners), "Aszoo" and "Sutton," who were willing to assist, although their knowledge of the mountain was not certain. Finally they met a

miner by the nickname "Adi," later discovering that his real name was Leonard Adams. His mining camp was located at the base of Ebini Mountain in the Minihaha area, near the North Fork River (Figure 11). A driver was hired to take the team down to the camp to assess an approach to the mountain. The dirt "road" to Minihaha had been blocked by two tree falls, the result of Amerindians cutting down "whitey" trees (*Inga* sp.) in order to get the sweet, fleshy pulp surrounding the seeds in the legume pods. After trying to remove the debris it was decided to abandon the jeep and to continue to the camp on foot. It was an ideal site for the team's base camp, and they returned the next day with the gear and guides.

The population of Adi's camp consisted of his sons and their families mining gold to try to make a living. The area around the camp was quite disturbed. They mined for gold by hand clearing and then digging large holes in the ground 10 feet deep and 20 or 30 feet across. All of the gravel would be washed and the gold dust amalgamated with mercury. The mercury-gold amalgam was then heated to vaporize the mercury, leaving the gold. It's a rough life, and half of the family had returned to Georgetown because of malaria. McDowell himself developed malaria after his return to Washington, less than a month after this trip.

The team collected plants along the North Fork River and processed the specimens in the small tarpaulin-covered shelter of Adi's camp. The canopy was high and somewhat difficult to reach for collecting, but plants along the river were accessible and in flower. The North Fork River did not appear to be black water and the bottom was gravelly.

On May 20 the team hiked up the northeast side of Ebini Mountain, guided by Aszoo and Sutton. At first the slope was gentle and few understory plants impeded walking, but the mountain became steeper with many ravines to traverse. At times in was necessary to crawl up steep, wet slopes. At about 300 m elevation a camp was pitched near a fast flowing creek known to the guides as Blackwater Creek. The area near the camp was dominated by large, squared boulders, some the size of a small house, seeming randomly tossed about. There were interesting grooves on the boulder's faces reflecting weathering by water, but their directions were not consistent with the present flow of the river or the drainage of rainwater. Before they dropped their packs or raised a tarp the rains came hard and fast, and half of the camp was built in a torrent of rain. When the rain stopped the team sought out a dry spot to cook a meal.

The next morning arrived with the discovery of many brown scorpions in and around the camp. Everything had to be inspected before it was touched. While tightening the straps on a plant press filled with the previous day's specimens, McDowell was stung in the hand, causing him great pain for several hours. While preparing a plant press Kelloff was nearly stung by a few of these unannounced guests hiding within the corrugated aluminum ventilators.

This base camp was used for the next three days. Collections were made from surrounding ridges, forested slopes and rocky ravines. In places there were fields of small boulders, and the closed canopy above shaded out most of the sunlight. Landscapes on many of the collecting forays of this trip resembled an obstacle course with team members scrambling up and down boulder-filled ravines. Though in places the forest was "clean," with little understory, other areas were thick with small saplings, large herbs, lianas and vines tangling each step and blocking the view. Tree falls were numerous, increasing the tangle that had to be negotiated. Some of the steep forested slopes were practically vertical.

An assault on the pinnacle of the mountain was planned with the aid of topographic maps. The team hoped to reach the top, collecting plants along the way. They hiked to the northeast of the camp and moved along another small, white water creek. The forest of this ravine had an elfin appearance; the trunks of the trees and the ground were covered with moss. The trees were not dense, and they supported a large number of epiphytic *Spathiphyllum* (Araceae). Both the trees terrestrial aroids grew out of hummock mounds. There were several species of orchids, ferns (*Schizaea, Actinostachys* and *Trichomanes*), ground

saprophytes including *Voyria aphylla* and species in Burmanniaceae, and bromeliads. At about 600 m in elevation the climb became more difficult on the slippery ground. They observed what looked like to be giant worm castings 6 inches high. The clear tone of the Bellbird (*Procnias* sp.) rang out all around. The boulders were covered in mosses, small gesneriads, *Didymochlamys connellii* (Rubiaceae), and other epiphytes. *Vriesea splendens* (Bromeliaceae) was abundant on the ground, with bright 'tiger-lily' stripes on the inflorescence above the rosette of dark-banded green leaves. At 610 m they encountered the talus slopes of the "top hat" of Ebini Mountain. The team moved west trying to find a passage up the escarpment, but they encountered only cliff face and could not reach the summit.

After three days of collecting out of the Blackwater Creek camp, the crew descended the mountain on May 24. Walking without a trail, the guides led the group along the North Fork River in the direction of the Potaro-Konawarok Road. By midday the team reached the road and returned to Adi's camp.

Collections on this trip were dried using the field dryer when time, space and weather conditions permitted. Some collections were preserved in 70% ethanol after pressing, and later dried in Georgetown.

The habitats of Ebini Mountain should certainly be of continued interest to biodiversity researchers. McDowell's collections included the specimen that has been designated the holotype of a new genus and species in the family Gesneriaceae, *Lampadaria rupestris* Feuillet & L.E. Skog (on front cover, no. 4872). This plant was collected on 22 May near the Blackwater Creek camp. In the same location, *Gymnosiphon capitatus* (Benth.) Urb. (Burmanniaceae, no. 4874) was collected for the first time in the Guianas; it was growing near *Gymnosiphon divaricatus* (Benth.) Benth. & Hook. f., a more common species. Bassett Maguire's 1951 collections in this locality yielded at least three species new to science, *Ophiocaryon maguirei* Barneby (Sabiaceae), *Macrocentrum gracile* Wurdack (Melastomataceae), and *Salpinga paleacea* Wurdack (Melastomataceae). Ebini Mountain, along with the Kurungiku Mountain highlands to the south, which rise to over 1,000 m, would likely be very good sites for further exploration and collection of biological specimens, considering that these relatively brief expeditions have yielded so many specimens of scientific importance.

Trip 13: Kobadai Savanna - Haiamatipu, *16 June 1991 to 23 June 1991*

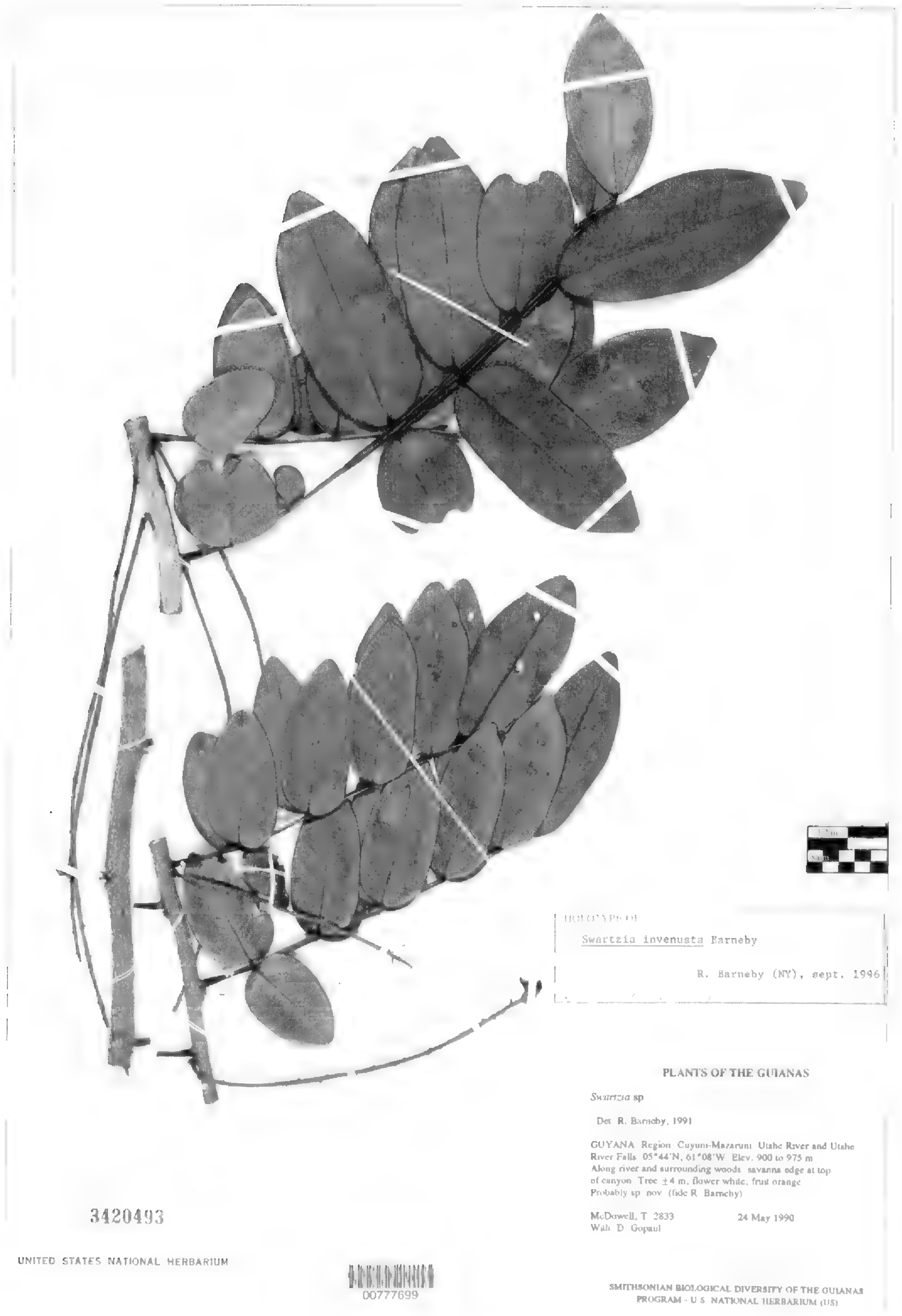
Collection numbers 4578 – 4804

On his last collecting trip, McDowell was accompanied by Bruce Hoffman, who was succeeding him as the resident plant collector for the BDG program, and Kate Lance, an American student from the Yale School of Forestry. McDowell planned this trip with the goal of improving collections from the upper Mazaruni District. Arrangements were made through the Ministry of Amerindian Affairs in Georgetown to visit and travel with individuals from Kako Village. The team flew from Georgetown to Kamarang and then proceeded in a rented wooden boat, powered by the BDG's 15-hp motor, up the Mazaruni River to Kako Creek. They were joined by Mr. Crommers, a Kako Amerindian, who served as their main guide for the trip to Haiamatipu, a flat-topped mountain rising above the white sand savanna and Morabukea forest to about 900 m. The mountain is dominated by the large leguminous tree *Mora gonggrijpii* (Kleinhoonte) Sandwith. Continuing about 10 km up the Kako River to Arabaru Creek, the team made a base camp at an Amerindian thatch house in a clearing on the Kobadai Savanna. The creeks and rivers were at flood level, and adjoining flat land, forests and trails were submerged under a foot or so of water. The house site was on higher ground had remained dry. Plant collections were made from the white sand savanna and woods near the campsite, and the following day, after being joined by two more Amerindians named Francis and Churchill, the team walked about 3.5 km to a new camp at the south end of Mt. Haiamatipu. The trail led through white sand forest, and was underwater in many places. At one point an unseen streambed interrupted the submerged trail, and McDowell dropped abruptly from calf-deep to chest-deep water.

The team collected on the steep slopes of Haiamatipu from the camp at the foot of the mountain to the low forest on the mountain's flat top. The forested slope was continually moist, and was particularly rich in mosses, ferns and epiphytes. On their first day on this hillside the team collected 14 species of orchids, all but one being epiphytic. Bromeliads were also abundant; five different species were collected that day. Also growing on the hillside and tepui summit were various epiphytic Araceae and Gesneriaceae. The first record for the Guianas of the moss *Eucamptodontopsis tortuosa* (Dicranaceae, no. 4718), with its sporophores to five cm long, was collected on a tree branch.

One of the Amerindian guides went game hunting while the plant collectors busied themselves with plants, and when the collecting team returned from the tipu there was a bush hog (*Pecari tajacu*) slowly smoking on the fire. The fire was tended all night, and the bush hog was carried back for sale or trade by the Amerindians who did not eat pork themselves for religious reasons, as they are Seventh Day Adventists. On their last day at the mountain-foot camp the team visited Crommer's nearby farm. They then returned by foot to the Arabaru Creek camp with its permanent house. In a final round of collecting from that locality they took the first record for the Guianas of *Tetrapterys pusilla* Steyerm. (Malpighiaceae, no. 4783), a low shrub with bright yellow flowers.

While staying at the Arabaru camp McDowell discovered that he had inadvertently acquired chigoes, a parasitic spider mite, (*Tunga penetrans* L., Siphonoptera), which presented as a spherical egg sac about 1 cm diameter buried under the skin at the front edge of a toenail. The simple remedy, as a guide informed them, was to simply excise the pea-sized sac with a small circular cut, upon which point it popped out neatly, "like a little onion" from the toe. These parasites are found around human settlements, and are picked up when walking barefoot on the sandy ground. The team retrieved their boat, which had been tied to trees on the flooded creekbank, and proceeded downstream to Kako Village. The next day they continued by boat to the Kamarang airstrip. There they hired a return flight to Georgetown from a charter pilot who had brought in supplies.


HOLOTYPE of
Swartzia invenusta Barneby
R. Barneby (NY), sept. 1996
PLANTS OF THE GUIANAS
Swartzia sp
Det R. Barneby, 1991
GUYANA Region Cuyuni-Mazaruni Utshe River and Utshe River Falls 05°44'N, 61°08'W Elev. 900 to 975 m
Along river and surrounding woods savanna edge at top of canyon Tree ±4 m, flower white, fruit orange
Probably sp nov (fide R Barneby)
McDowell, T 2833 24 May 1990
With D Gopaul
SMITHSONIAN BIOLOGICAL DIVERSITY OF THE GUIANAS
PROGRAM - U S NATIONAL HERBARIUM (US)
3420493
UNITED STATES NATIONAL HERBARIUM
00777699

Photograph of the holotype of *Swartzia invenusta* Barneby, McDowell 2833. Published in *Brittonia* 48: 186 (1996) without an illustration.

II: COLLECTION LOCALITIES

Trip Number 1:
St. Cuthberts - Rockstone

Collections: 1700 - 1827. 21 January 1990 to 23 January 1990

1700 - 1719.
Sand track to St. Cuthbert's Mission, ±5 mi. E of highway. 21 January 1990.
6°22'N 58°8'W, Elevation 40 m.
Open savanna, white sand, highly soaked from 3 weeks of rain.
Collected with V. Funk; S. Tiwari.

1720 - 1734.
Sand track to St. Cuthbert's Mission, ±4 mi. E of highway. 21 January 1990.
6°19'N 58°14'W, Elevation 40 m.
Burned over, highly disturbed wooded scrub.
Collected with V. Funk; S. Tiwari.

1735 - 1750.
Sand track to St. Cuthbert's Mission, ±4 mi. East of highway. 22 January 1990.
6°19'N 58°14'W, Elevation 40 m.
Alongside road.
Collected with V. Funk; S. Tiwari.

1751 - 1783.
Sand track to St. Cuthbert's Mission, ±4 miles East of highway. 22 January 1990.
6°19'N 58°14'W, Elevation 40 m.
Wet savanna, flooded white sand, ±disturbed.
Collected with V. Funk; S. Tiwari.

1784 - 1790.
Confluence of Arakwai River & Essequibo River, at loading dock and near home of guard (Ivan Rodriguez). 23 January 1990.
6°8'N 58°34'W, Elevation 10 to 30 m.
Weedy, cleared area.
Collected with V. Funk; S. Tiwari.

1791 - 1799.
Along roadside between Urisirima, on Essequibo, and Rockstone. 23 January 1990.
6°15'N 58°34'W, Elevation 10 to 30 m.
Forest edge, disturbed.
Collected with V. Funk; S. Tiwari.

1800 - 1825.
Along road between Rockstone and Linden. 23 January 1990.
5°59'N 58°25'W, Elevation 10 to 100 m.
Roadside.
Collected with V. Funk; S. Tiwari.

1826.
Linden Highway, ±4 mi. E of Timehri - Georgetown road. 23 January 1990.
6°10'N 58°14'W, Elevation 40 m.
Roadside.
Collected with V. Funk; S. Tiwari.

1827.
In clearing, at confluence of Araki Creek and Essequibo. 23 January 1990.
6°10'N 58°14'W, Elevation 40 m.
Collected with V. Funk; S. Tiwari.

Trip Number 2:
Karanambo - Surama - Karasabai

Collections: 1828 - 2214. 16 February 1990 to 10 March 1990

1828 - 1831.
Karanambo, foothills of Mt. Eggerton near Paranapanema Road, within 300 m of road. 16 February 1990.
3°51'N 59°30'W, Elevation 110 m.
Savanna, dry white dirt.
Collected with C. Feuillet; P. Acevedo; S. Tiwari.

1832 - 1847.
Along high banks of Ireng River (border with Brazil) near crossing to Normandia. 16 February 1990.
3°53'N 59°35'W, Elevation 100 m.
In woods at top of riverbank.
Collected with S. Tiwari.

1848 - 1852.
Karanambo, road from McTurk's compound to runway (CAD strip). 17 February 1990.
3°45'N 59°19'W, Elevation 105 m.
Savanna with grass and *Curatella*.
Collected with S. Tiwari.

1853 - 1863.
Karanambo, ±0.75 mile from McTurk's compound to runway (CAD strip). 17 February 1990.
3°45'N 59°19'W, Elevation 105 m.
In woods.
Collected with S. Tiwari.

1864.
Karanambo, 20 m from McTurk compound near Rupununi River. 17 February 1990.
3°45'N 59°19'W, Elevation 105 m.
In woods.
Collected with S. Tiwari.

1865 - 1879.
Along road leading North from Karanambo between compound and dam - pond. 18 February 1990.
3°45'N 59°19'W, Elevation 105 m.
Savanna and wooded island in savanna.
Collected with P. Acevedo; C. Feuillet; S. Tiwari.

1880 - 1881.
Along jeep track NW of Karanambo. 18 February 1990.
3°48'N 59°21'W, Elevation 100 m.
Savanna and wooded island in savanna.
Collected with P. Acevedo; C. Feuillet; S. Tiwari.

1882 - 1883.
In pond at Karanambo. 18 February 1990.
3°48'N 59°21'W, Elevation 100 m.
Shallow water in savanna.
Collected with P. Acevedo; C. Feuillet; S. Tiwari.

1884 - 1906.
±4 km NW of Surama Village, ±10 km N of new Paranapanema Road, along western trail to Buro-Buro River. 19 February 1990.
4°9'N 59°4'W, Elevation 65 to 90 m.
Mixed forest, some trees 50 m or more & large palms.
Collected with S. Allicock; P. Acevedo; C. Feuillet; S. Tiwari.

1907 - 1912.
From Surama Village to Buro-Buro River, by road from savanna to woods. 20 February 1990.
4°8'N 59°4'W, Elevation 70 to 80 m.
Overgrown clearing by riverbank.
Collected with S. Allicock; P. Acevedo; C. Feuillet; S. Tiwari.

1913 - 1918.
From Surama Village to Buro-Buro River, by road. 20 February 1990.
4°8'N 59°4'W, Elevation 70 to 80 m.
Old forest.
Collected with S. Allicock; P. Acevedo; C. Feuillet; S. Tiwari.

1919 - 1927.
By Buro-Buro River, along old jeep track. 20 February 1990.
4°8'N 59°4'W, Elevation 70 to 80 m.
Overgrown clearing in old forest.
Collected with S. Allicock; P. Acevedo; C. Feuillet; S. Tiwari.

1928 - 1936; 1947.
Along track leading to airstrip by Surama Village, between Buro-Buro River and savanna. 20 February 1990.
4°8'N 59°4'W, Elevation 70 to 80 m.
Collected with S. Allicock; P. Acevedo; C. Feuillet; S. Tiwari.

1937 - 1939.
Vicinity of Buro-Buro River and Surama Village. 20 February 1990.
4°8'N 59°4'W, Elevation 70 to 80 m.
Along edge of woods bordering savanna.

Collected with S. Allicock; P. Acevedo; C. Feuillet; S. Tiwari.

1940 - 1942.
Near Buro-Buro River along footpath from Surama Village. 19 February 1990.
4°9'N 59°4'W, Elevation 65 to 90 m.
In old woods.
Collected with S. Allicock; P. Acevedo; C. Feuillet; S. Tiwari.

1943 - 1946.
Around compound at Surama. 21 February 1990.
4°8'N 59°4'W, Elevation 75 m.
In savanna.
Collected with S. Tiwari.

1948 - 1958.
Along vehicle track from Surama Village to Main road. 21 February 1990.
4°8'N 59°4'W, Elevation 75 m.
Savanna.
Collected with S. Tiwari.

1959 - 1965; 1972; 1974 - 1983.
About 3 mi. NE of Surama village, near eastern end of Lake Surama. 22 February 1990.
4°9'N 59°2'W, Elevation 65 m.
Woods and scrub besides lake.
Collected with S. Allicock; P. Acevedo; C. Feuillet; S. Tiwari.

1966 - 1971; 1973; 1984 - 1989.
Between Lake Surama and Surama Village. 22 February 1990.
4°8'N 59°3'W, Elevation 65 to 75 m.
Woods.
Collected with S. Allicock; P. Acevedo; C. Feuillet; S. Tiwari.

1990 - 1993.
Lake Surama, about 3 mi. NE of Surama village. 22 February 1990.
4°9'N 59°2'W, Elevation 65 m.
Disturbed area next to lake.
Collected with S. Allicock; P. Acevedo; C. Feuillet; S. Tiwari.

1998.
From Surama Village to new road. 23 February 1990.
4°5'N 59°4'W, Elevation 85 m.
Old forest.
Collected with S. Allicock; P. Acevedo; C. Feuillet; S. Tiwari.

1999 - 2011.
Surama Village, NW of airstrip. 24 February 1990.
4°9'N 59°4'W, Elevation 75 to 85 m.
Along edge and in woods on higher ground, edge of savanna.
Collected with S. Allicock; P. Acevedo; C. Feuillet; S. Tiwari.

2012 - 2037.
E of airstrip, near Surama Village. 24 February 1990.
4°9'N 59°4'W, Elevation 75 to 85 m.
Along boundary of low, swampy woods and savanna.
Collected with S. Allicock; P. Acevedo; C. Feuillet; S. Tiwari.

2038 - 2058; 2075.
Near Surama Village, E of airstrip. 25 February 1990.
4°8'N 59°4'W, Elevation 70 m.
In savanna at edge of woods.
Collected with C. Feuillet.

2059 - 2074.
Along Paranapanema road clearing ±15 km NE of Surama village. 27 February 1990.
4°15'N 58°56'W, Elevation 90 to 110 m.
Bulldozed treefall. Vegetation broken and in disarray.
Collected with P. Acevedo; C. Feuillet; S. Tiwari.

2076 - 2086.
Along Paranapanema Rd. construction, ±15 km NE of Surama. 28 February 1990.
4°15'N 58°56'W, Elevation 90 to 110 m.
Bulldozed treefall. Material generally broken and in disarray.
Collected with P. Acevedo; C. Feuillet; S. Tiwari.

2087 - 2110.
±15 - 20 km NE of Surama Village Rd. 1 March 1990.

4°15'N 58°56'W, Elevation 90 to 110 m.
Newly-cleared right-of-way, vegetation often in disarray from bulldozing.
Collected with P. Acevedo; C. Feuillet; S. Tiwari.

2111 - 2113.
Along service road ±3 km SE of Annai Administration Bldg., Annai. 2 March 1990.
3°58'N 59°10'W, Elevation 90 m.
Along edges of burned fields.
Collected with P. Acevedo; C. Feuillet; S. Tiwari.

2114 - 2115.
Annai Village, 200 m SW of police compound. 4 March 1990.
3°58'N 59°10'W, Elevation 90 m.
Damp bottom land, bush and tall brush savanna.
Collected with P. Acevedo; C. Feuillet; S. Tiwari.

2116 - 2121.
Karasabai Village, Yurora creek, ±5 km SE of water tower. 5 March 1990.
4°1'N 59°31'W, Elevation 100 to 110 m.
Woods in low floodplain beside creek.
Collected with P. Acevedo; C. Feuillet; S. Tiwari.

2122 - 2127.
Karasabai Village to Yurora creek, ±5 km NE of village. 6 March 1990.
4°4'N 59°31'W, Elevation 100 to 110 m.
Along creek in understory of gallery woods.
Collected with C. Feuillet; P. Acevedo; S. Tiwari; A. Raphael.

2128 - 2142.
Karasabai, near Yurora creek. 6 March 1990.
4°4'N 59°31'W, Elevation 100 to 110 m.
Near burned, cleared, cultivated cassava grove.
Collected with C. Feuillet; P. Acevedo; S. Tiwari; A. Raphael.

2143 - 2149.
Karasabai, along Yourora Creek, ±5 km NE of water tower. 6 March 1990.
4°4'N 59°31'W, Elevation 105 to 110 m.
Gallery woods, cassava fields, floodplain and savanna.
Collected with C. Feuillet; P. Acevedo; S. Tiwari; A. Raphael.

2150 - 2175.
NE from Karasabai, to Yourora Creek. 7 March 1990.
4°3'N 59°30'W, Elevation 100 to 110 m.
Dry savanna, gallery woods near creek & rocky hillside.
Collected with C. Feuillet; P. Acevedo; S. Tiwari; A. Raphael.

2176 - 2188.
NW from Karasabai to Maon along banks of Ireng River. 8 March 1990.
4°2'N 59°36'W, Elevation 100 to 110 m.
Open savanna, riverbank woods and cultivated cassava areas. Savanna and woods burned frequently.
Collected with C. Feuillet; P. Acevedo; S. Tiwari; A. Raphael.

2189 - 2206.
SE of Karasabai to Yourora Creek, ±3 km from water tower. 9 March 1990.
4°1'N 59°31'W, Elevation 100 to 110 m.
Semi - evergreen floodplain forest 5 - 20 m. Area burns frequently from savanna and nearby gardens.
Collected with C. Feuillet; P. Acevedo; S. Tiwari; A. Raphael.

2207 - 2208.
Karasabai, near guest house. 9 March 1990.
4°4'N 59°31'W, Elevation 105 to 110 m.
Savanna.
Collected with C. Feuillet; P. Acevedo; S. Tiwari; A. Raphael.

2209 - 2210.
Karasabai, near airport guest house. 10 March 1990.
4°4'N 59°31'W, Elevation 105 to 110 m.
Disturbed lot.
Collected with C. Feuillet; P. Acevedo; S. Tiwari; A. Raphael.

2211 - 2214.
Along Yourora Creek, ±2 km NE of Karasabai village. 9 March 1990.

4°1'N 59°31'W, Elevation 100 to 110 m.
Semi - evergreen floodplain forest 5 - 20 m. Area burns frequently from savanna and nearby gardens.
Collected with C. Feuillet; P. Acevedo; S. Tiwari; A. Raphael.

Trip Number 3: Kaieteur

Collections: 2215 - 2217. 22 March 1990

2215 - 2217.
Kaieteur, NW of airstrip ±1 km. 22 March 1990.
5°10'N 59°29'W, Elevation 500 m.
Through low woods, across creek, and up wooded hill to rock outcrop.
Collected with J. Bowdre.

Trip Number 4: Corentyne River - Orealla

Collections: 2222 - 2540. 13 April 1990 to 26 April 1990

2222 - 2249.
Baba - Grant Sawmill, ±5 mi. above Cow Falls, Corentyne River. Tractor road N from landing. 13 April 1990.
5°0'N 57°42'W, Elevation 10 to 50 m.
Disturbed lowland rainforest.
Collected with D. Gopaul.

2250 - 2269.
Baba - Grant Sawmill, ±5 mi. above Cow Falls, Corentyne River. ±4 mi. N by logging road from. 14 April 1990.
5°3'N 57°42'W, Elevation 10 to 25 m.
Old forest, selectively logged & regrown. Following a very wet year.
Collected with D. Gopaul.

2270 - 2283.
Baba - Grant Sawmill, ±5 mi. above Cow Falls, Corentyne River. 4 - 8 km N of landing along logging road. 15 April 1990.
5°0'N 57°42'W, Elevation 10 to 25 m.
Secondary forest, logged and with regrowth.
Collected with D. Gopaul.

2284 - 2321.
Along banks of Corentyne River, above Baba Grant Sawmill, above Cow Falls. 17 April 1990.
5°0'N 57°40'W, Elevation 10 to 20 m.
Gallery forest, often secondary after logging last 50 years.
Collected with D. Gopaul.

2322 - 2329.
Baba Grant Sawmill Concession, Corentyne River, ±4 km N of landing. 18 April 1990.
5°2'N 57°42'W, Elevation 10 to 25 m.
Old secondary forest, collecting at newly cut trees.
Collected with D. Gopaul.

2330 - 2337.
Along banks of Corentyne River, above Cow Falls, near Baba Grant sawmill. 18 April 1990.
5°0'N 57°42'W, Elevation 10 to 25 m.
Along river and in nearby forest.
Collected with D. Gopaul.

2338 - 2347.
Along banks of Corentyne River, above Cow Falls, near the Baba Grant sawmill. 19 April 1990.
5°0'N 57°42'W, Elevation 10 to 25 m.
Along river and in nearby forest, logging area.
Collected with D. Gopaul.

2348 - 2373.
Baba Grant Sawmill, along Corentyne River. 19 April 1990.
5°0'N 57°42'W, Elevation 10 to 30 m.
Along river and disturbed forest.
Collected with D. Gopaul.

2374 - 2388.
Corentyne River, between Cow Falls and Baba Grant sawmill landing. 20 April 1990.
4°59'N 57°37'W, Elevation 10 to 25 m.
Along banks of river at flood level.
Collected with D. Gopaul.

2389 - 2405.
Baba Grant Sawmill landing along banks of Corentyne River, above Cow Falls. 21 April 1990.

5°0'N 57°42'W, Elevation 10 to 25 m.
Logging road, log storage area, highly disturbed.
Collected with D. Gopaul.

2406 - 2414.
Corentyne River, above Cow Falls, near Baba Grant sawmill. 21 April 1990.
5°0'N 57°42'W, Elevation 10 to 25 m.
Along banks of river.
Collected with D. Gopaul.

2415 - 2428.
Baba Grant Sawmill, Corentyne River above Cow Falls. Along road near landing & in log depot. 21 April 1990.
5°0'N 57°42'W, Elevation 10 to 25 m.
Cleared weedy area.
Collected with D. Gopaul.

2429 - 2440.
Baba Grant Sawmill, on Corentyne River above Cow Falls. Near logging camp and landing. 22 April 1990.
5°0'N 57°42'W, Elevation 10 to 25 m.
Disturbed areas and near banks of river.
Collected with D. Gopaul.

2441 - 2454; 2478 - 2479.
White Hill on Corentyne River, private residence, 1 km W of river. 24 April 1990.
5°6'N 57°19'W, Elevation 10 to 50 m.
Wallaba woods, white sand forest.
Collected with D. Gopaul.

2455 - 2477.
Corentyne River and Potoko Creek. 24 April 1990.
5°6'N 57°19'W, Elevation 10 to 25 m.
Banks of creek and river.
Collected with D. Gopaul.

2480 - 2481.
Corentyne River. 25 April 1990.
5°12'N 57°10'W, Elevation 10 to 20 m.
Flooded river banks.
Collected with D. Gopaul; P. Singh.

2482 - 2499.
Orealla Amerindian settlement, ±1 km SW of landing. 25 April 1990.
5°20'N 57°21'W, Elevation 30 to 50 m.
White sand savanna.
Collected with D. Gopaul; P. Singh.

2500 - 2502.
Orealla Amerindian village on Corentyne River, N from village up escarpment. 26 April 1990.
5°21'N 57°22'W, Elevation 20 to 50 m.
Disturbed forest, woods, logging road; white and tan sand.
Collected with D. Gopaul.

2503 - 2520.
Near Corentyne River and Orealla Amerindian village. 26 April 1990.
5°20'N 57°22'W, Elevation 20 to 50 m.
White and tan sand savanna.
Collected with D. Gopaul.

2521 - 2540.
About 0.5 km W of Corentyne River, near Orealla Amerindian village. 26 April 1990.
5°21'N 57°22'W, Elevation 20 to 50 m.
Logging road through woods.
Collected with D. Gopaul.

Trip Number 5: Kamarang R. - Parumia - Utshi R. - Holitipu

Collections: 2541 - 3241. 12 May 1990 to 14 June 1990

2541 - 2565.
Along Mazaruni R, confluence with Kamarang R to 2 km downstream. 12 May 1990.
5°53'N 60°37'W, Elevation 490 m.
Gallery forest along river.
Collected with D. Gopaul.

2566 - 2583.
Along Mazaruni R, confluence with Kamarang R to ±3 km upstream. 12 May 1990.
5°53'N 60°37'W, Elevation 490 m.
Gallery forest along river, river very high.
Collected with D. Gopaul.

2584 - 2627.
Paruima to Conoch Tipu, S of village ±1 km. 17 May 1990.
5°59'N 61°3'W, Elevation 530 to 610 m.

Disturbed farmed hillside with regrowth forest; old forest on hilltop.
Collected with D. Gopaul.

2628 - 2639.
SW end of Paruima village, NW of Conoch Tipu. 18 May 1990.
5°48'N 61°3'W, Elevation 495 m.
Woods and clearing between river and mountain base.
Collected with D. Gopaul.

2640 - 2652.
In and around Paruima village. 18 May 1990.
5°49'N 61°4'W, Elevation 495 m.
Collected with D. Gopaul.

2653 - 2674.
Paruima village, to ±1 km S, trails to farm and to Kamarang River. 19 May 1990.
5°48'N 61°3'W, Elevation 495 m.
Secondary growth around village.
Collected with D. Gopaul.

2675 - 2687; 2708 - 2716.
Along E bank Utshi R, from falls above Paruima Mission to Lalluvia Creek and Falls. 20 May 1990.
5°47'N 61°3'W, Elevation 495 m.
Narrow bottomland, base of cliff, wet forest. Occasional farm.
Collected with L. Anselmo.

2688 - 2707.
Top of Warama Tipu, small mt. across Kamarang R, N of Paruima village. 20 May 1990.
5°50'N 61°4'W, Elevation 530 to 610 m.
Collected with D. Gopaul.

2717 - 2756.
Utshi camp, 0.3 km N of Utshi R, just S of forest. 22 May 1990.
5°45'N 61°8'W, Elevation 975 m.
Savanna and bush at margins, frequent burning. White sand, rock outcrops.
Collected with D. Gopaul.

2757 - 2778.
Camp at Utshi, 0.3 km N of Utshi R on Savanna. 23 May 1990.
5°45'N 61°8'W, Elevation 975 m.
Forest edge and frequently burned savanna. White sand.
Collected with L. Anselmo.
2779 - 2795.
Utshi River. 23 May 1990.
5°45'N 61°9'W, Elevation 940 m.
Gallery forest along river. River very high.
Collected with D. Gopaul; Mr.Thompson.

2796 - 2802.
Utshi Camp to Utshi River Falls. 24 May 1990.
5°44'N 61°8'W, Elevation 900 to 975 m.
Forest and savanna near river and falls.
Collected with D. Gopaul.

2803 - 2837.
Utshi River and Falls. 24 May 1990.
5°44'N 61°8'W, Elevation 900 to 975 m.
Along river and surrounding woods.
Collected with D. Gopaul.

2838 - 2851; 2861 - 2866; 2869 - 2876.
Utshi River area, along trail leading to Venezuela. 25 May 1990.
5°45'N 61°9'W, Elevation 900 to 950 m.
Sandy banks and near river, hillside forest, and hilltop sand savanna.
Collected with D. Gopaul.

2852 - 2860; 2867 - 2868; 2877 - 2892.
Utshi River, south side overlooking Guyana & Venezuela. 25 May 1990.
5°44'N 61°10'W, Elevation 1000 m.
High savanna above river.
Collected with D. Gopaul.

2893 - 2920.
From Utshi River to Great Falls on Kamarang River; 4 - 5 km SE of Utshi camp. 26 May 1990.
5°43'N 61°7'W, Elevation 850 to 975 m.
Wet savanna, white sand, along river, and ravine forest between savanna and river.
Collected with D. Gopaul.

2921 - 2922.
Utshi River, between savanna and river, near Utshi campsite. 26 May 1990.
5°45'N 61°8'W, Elevation 975 m.
Ravine forest.
Collected with D. Gopaul.

2923 - 2926.
Return from camp 0.3 mi. N of Utshi River to Paruima Village. 27 May 1990.
5°47'N 61°4'W, Elevation 550 m.
In forest and along creek, near trail.
Collected with D. Gopaul.

2927 - 2929.
Farm of Lloyd Anselmo, across Kamarang River from Paruima Village. "Farm Mountain". 28 May 1990.
5°49'N 61°2'W, Elevation 500 m.
Collected with D. Gopaul.

2930 - 2959.
Foot of Mt. Waleliwatipu. 29 May 1990.
5°51'N 61°3'W, Elevation 680 to 790 m.
Sandy area above forest.
Collected with D. Hughs; L. Anselmo; L. Thompson.

2960 - 3000; 3017.
7 km N of Paruima Village; after descent from south face of Mt. Waleliwatipu. 30 May 1990.
5°54'N 61°2'W, Elevation 980 to 1060 m.
High white sand savanna and creekside.
Collected with D. Hughs; D. Gopaul.

3001 - 3016; 3018 - 3020.
From Wanach Creek, 7 km W of Holitipu Summit to Holitipu camp ±1 km S of summit. 31 May 1990.
5°57'N 61°3'W, Elevation 1000 to 1150 m.
High savanna and forested ravines.
Collected with D. Hughs; D. Gopaul.

3021 - 3050.
Mt. Holitipu camp, below peak. 1 June 1990.
5°56'N 61°5'W, Elevation 1150 to 1240 m.
Forested creek, high savanna. Eroded sandstone and white sand.
Collected with D. Hughs; D. Gopaul.

3051 - 3061.
Return from Kaikan, Piaitma tipu. 3 June 1990.
6°9'N 61°8'W, Elevation 250 to 475 m.
Forest on steep slope.
Collected with D. Hughs; D. Gopaul.

3062 - 3067.
Returning south from Kaikan. 3 June 1990.
6°7'N 61°6'W, Elevation 525 to 580 m.
Savanna, rocky-white sand, or creekside in riverine bush.
Collected with D. Hughs; D. Gopaul.

3068 - 3098.
Macaw Creek to Holitipu camps, hillside of Karabo Mt. 4 June 1990.
6°0'N 61°5'W, Elevation 580 to 1100 m.
Savanna, bush along creeks, and bush on hillside.
Collected with D. Hughs; D. Gopaul.

3099 - 3107.
Base of Walilewatipu and along trail to Paruima. 6 June 1990.
5°51'N 61°3'W, Elevation 540 to 790 m.
Forest at base of steep 250 m precipice, trailside, and hillside farms.
Collected with D. Hughs; D. Gopaul.

3108 - 3155.
From 0.5 to 2 km W of Waramadan village. 8 June 1990.
5°48'N 60°44'W, Elevation 490 m.
Savanna area and forest.
Collected with D. Gopaul.

3156 - 3180.
Waramaden, Kamarang River 0 - 2 km upstream of Guest House landing. 9 June 1990.
5°48'N 60°44'W, Elevation 490 m.
Flooded river banks.
Collected with D. Gopaul.

3181 - 3197.
Waramaden, Kamarang River 0 - 2 km downstream of Guest House landing. 10 June 1990.
5°48'N 60°44'W, Elevation 490 m.
Flooded river banks.
Collected with D. Gopaul.

3198 - 3233.
Waramaden, around village and between airstrip and creek. 12 June 1990.
5°48'N 60°44'W, Elevation 490 m.
Disturbed areas around village and disturbed woods.
Collected with D. Gopaul.

3234 - 3241.
Kamarang, around compound. 14 June 1990.
5°53'N 60°37'W, Elevation 490 m.
Disturbed areas.
Collected with D. Gopaul.

Trip Number 6: Kurupukari - Rupununi R. and Mahdia - Eagle Mountain

Collections: 3250 - 3637. 19 September 1990 to 19 October 1990

3250 - 3271.
"Fairview Landing" E bank of Essequibo River, near end of Mabura road. 19 September 1990.
4°40'N 58°40'W, Elevation 91 m.
Disturbed areas near road, riverbanks below Kurupukari.

3272 - 3275.
E bank Essequibo River at Fairview Landing. 20 September 1990.
4°40'N 58°40'W, Elevation 91 m.
Open, disturbed area along road.

3276 - 3277.
Very small island, sandy banks, in Essequibo, opposite Kurupukari settlement. 20 September 1990.
4°40'N 58°40'W, Elevation 60 m.

3278 - 3280.
On island between Kurupukari and Fairview. Island about 100 m long. 20 September 1990.
4°40'N 58°40'W, Elevation 60 m.

3281 - 3289.
Along Essequibo River. 20 September 1990.
4°40'N 58°40'W, Elevation 60 m.
River flood marks at 1.6 m above present level. Trees, lianas, occasional disturbed areas.
Mora and Wallaba prominent

3290 - 3325.
Trail from Kurupukari Amerindian settlement to Paranapanema survey line, 1 - 2 km from road. 21 September 1990.
4°40'N 58°40'W, Elevation 60 m.
Along road and stream in forest.

3326 - 3345.
Along Essequibo River, upstream from Kurupukari Falls, from 1 - 3 km S of falls. 22 September 1990.
4°40'N 58°40'W, Elevation 61 m.
Along river banks, water level high.

3346 - 3366.
Near Amerindian farms of Kurupukari, 0.5 km W of Kurupukari Falls. 22 September 1990.
4°40'N 58°40'W, Elevation 61 m.
Trails, clearings and disturbed forest, dry floodplains.

3367 - 3375.
On 0.5 km long island in Essequibo River, ~1 km S of Fairview Landing. 23 September 1990.
4°40'N 58°40'W, Elevation 61 m.
Old forest, trees to ±37 m, many palms in understory.

3376 - 3378.
Tiny island opposite Kurupukari and "White Mans Landing"; on portage crossing at. 24 September 1990.
4°40'N 58°40'W, Elevation 61 m.

3379 - 3381.
On island in Essequibo, "Government Landing", ±8 mi S of Kurupukari Falls. 24 September 1990.
4°34'N 58°35'W, Elevation 61 m.
Tall forest, white sand.

3382 - 3393.
Along Essequibo River, between Cashew Falls and Apoteri. 25 September 1990.
4°15'N 58°35'W, Elevation 68 m.
Old forest, disturbed riverbank, high water. White sand and granite outcrops.

3394 - 3399.
Along Rupununi River, between Rewa River and Annai. 26 September 1990.
3°55'N 59°10'W, Elevation 76 m.

3400 - 3402.
3 km SE of Lethem - Annai Rd, along Napi Creek, dry season shortcut to Karanambo. 27 September 1990.
3°38'N 59°37'W, Elevation 76 m.

Riverside shrub growth in open savanna.

3403 - 3406.
Toll station, entrance Mabura Hill - Demerara Woods. 4 October 1990.
5°22'N 58°38'W, Elevation 100 m.
Edge of woods along clearing for right of way.
Collected with D. Gopaul.

3407 - 3408.
Mahdia, near Mahdia creek ±0.5 km S of compound. 5 October 1990.
5°19'N 59°8'W, Elevation 107 m.
Collected with D. Gopaul.

3409 - 3430.
Along Potaro - Konawa road, between Golden Star - Mahdia cutoff and creek. Base of Eagle. 8 October 1990.
5°12'N 59°7'W, Elevation 137 m.
Collected with D. Gopaul.

3431 - 3450.
Along trail up Eagle Mountain, 2 - 3 km above junction with Potaro - Konowaruk Rd. 8 October 1990.
5°12'N 59°7'W, Elevation 137 to 304 m.
Collected with D. Gopaul.

3451 - 3468.
Eagle Mt, W slope up to plateau near summit, ±1.2 - 2.7 km above Mahdia River. 9 October 1990.
5°12'N 59°7'W, Elevation 304 to 685 m.
Trailside, mixed rainforest 25 - 30 m canopy. *Heliconia*, Marantaceae spp. etc..
Collected with D. Gopaul.

3469 - 3483.
Ridge of Eagle Mountain, near trail of Golden Star, upper plateau to ridge. 10 October 1990.
5°12'N 59°7'W, Elevation 304 to 685 m.
Mixed forest, palms. *Heliconia*, Marantaceae, Gesneriaceae in understory.
Collected with D. Gopaul.

3484 - 3500.
Lower slope of Eagle Mountain between streams and 1.2 km above Mahdia River. 11 October 1990.
5°12'N 59°7'W, Elevation 107 to 304 m.
Mixed forest. Steep slopes with old rock outcrops.
Collected with D. Gopaul.

3501 - 3544.
In woods along creek at SW base of Eagle Mt. and along Potaro - Konawaruk Road. 12 October 1990.
5°12'N 59°7'W, Elevation 107 to 152 m.
Collected with D. Gopaul.

3545 - 3548.
Top of Eagle Mountain, S end of ridge. 12 October 1990.
5°12'N 59°7'W, Elevation 610 to 700 m.
Collected with D. Gopaul.

3549 - 3550.
Slopes of Eagle Mountain. 13 October 1990.
5°12'N 59°7'W, Elevation 122 m.
Collected with D. Gopaul.

3551 - 3570.
Beyond Golden Star, NE along road to Elizabeth Creek. 15 October 1990.
5°18'N 59°5'W, Elevation 122 m.
Collected with D. Gopaul.

3571 - 3603.
From camp on Elizabeth Creek ±1 km along road to NE and along creek. 16 October 1990.
5°18'N 59°5'W, Elevation 122 m.
White sand forest, low creek floodplain and along road.
Collected with D. Gopaul.

3604 - 3616.
Between Elizabeth Creek camp and strip mine test area. 17 October 1990.
5°18'N 59°5'W, Elevation 122 m.
Open white sand swamp and along road.
Collected with D. Gopaul.

3617 - 3631.
Near Elizabeth Creek. 17 October 1990.
5°18'N 59°5'W, Elevation 122 m.
Red clay mud flat.
Collected with D. Gopaul.

3632.
In Mahdia compound, near houses. 18 October 1990.
5º16'N 59º9'W, Elevation 122 m.
Disturbed yards.
Collected with D. Gopaul.

3633.
Along Bartica - Potaro Road, near mile post 98. 19 October 1990.
5º20'N 59º0'W, Elevation 122 m.
White sand forest.
Collected with D. Gopaul.

3634 - 3635.
Along Bartica - Potaro Road, near mile post 92. 19 October 1990.
5º27'N 59º0'W, Elevation 122 m.
White sand forest.
Collected with D. Gopaul.

3636 - 3637.
Along Bartica - Potaro Road, near mile post 88. 19 October 1990.
5º30'N 59º0'W, Elevation 122 m.
White sand forest.
Collected with D. Gopaul.

Trip Number 7: Eping River I

Collections: 3638 - 3798. 7 November 1990 to 15 November 1990

3638 - 3657.
Eping River Camp (Golden Star Resources), ±3 mi above confluence with Mazaruni R. 7 November 1990.
6º5'N 60º7'W, Elevation 76 to 122 m.
White sand and alluvial clay-sand forest, mixed forest.

3658 - 3669.
Eping River camp, Golden Star Resouces, along easterly road to ±2 km E of camp. 8 November 1990.
6º5'N 60º7'W, Elevation 76 to 122 m.
White sand, alluvial forest.

3670 - 3684.
Golden Star Resources Exploration property, ±3 km E of Eping R. camp. 9 November 1990.
6º5'N 60º7'W, Elevation 76 to 122 m.
Floodplain forest, seasonal flooding by Mazaruni River. Alluvial white sand.

3685 - 3705.
0.8 km S of Eping River camp (Golden Star Resources) south of large test pit. 10 November 1990.
6º5'N 60º7'W, Elevation 76 to 122 m.
Wet forest, muddy land and stream banks.
Collected with D. Gopaul.

3706 - 3711.
Line west of Eping River camp (Golden Star Resources). 10 November 1990.
6º5'N 60º7'W, Elevation 76 to 122 m.
Collected with D. Gopaul.

3712 - 3730.
Eping River, from Golden Star Resources camp to 0.5 km upstream. 11 November 1990.
6º5'N 60º7'W, Elevation 76 to 122 m.
Along banks of river.
Collected with D. Gopaul.

3731 - 3734.
Eping River, 0 - 2 km upstream and below Golden Star Resources river camp. 13 November 1990.
6º5'N 60º7'W, Elevation 76 to 122 m.
Riverbank gallery forest.
Collected with D. Gopaul.

3735 - 3744; 3748; 3750 - 3766.
At edge of clearing, Golden Star Resources camp, Eping River. 13 November 1990.
6º5'N 60º7'W, Elevation 76 to 122 m.
Collected with D. Gopaul.

3745 - 3746.
Mazaruni R., opposite confluence with Eping R. 13 November 1990.
6º5'N 60º7'W, Elevation 76 to 122 m.
Grazed sheep clearing near house.
Collected with D. Gopaul.

3747; 3749.
Eping Landing. 13 November 1990.
6º5'N 60º7'W, Elevation 76 to 122 m.
Grazed sheep clearing near house.
Collected with D. Gopaul.

3767 - 3775.
Near Eping River camp of Golden Star Resources. 14 November 1990.
6º5'N 60º7'W, Elevation 76 to 122 m.
Forest.
Collected with D. Gopaul.

3776 - 3780.
Ranging 2 - 6 km upstream from Eping River camp (Golden Star Resources). 15 November 1990.
6º5'N 60º7'W, Elevation 76 to 122 m.
Along river.

3781 - 3794.
Approx. 100 m below Eping Landing, opposite confluence with Perenang Creek. 15 November 1990.
6º5'N 60º7'W, Elevation 76 to 122 m.
Overgrown clearing around old campsite.

3795 - 3798.
Along Perenang Creek, 0 - 2 km upstream of Eping River. 15 November 1990.
6º5'N 60º7'W, Elevation 76 to 122 m.

Trip Number 8: Eping River II

Collections: 3799 - 4060. 25 January 1991 to 22 February 1991

3799 - 3803.
To Eping River Camp, about 4 km from confluence with Mazaruni R, along Mazaruni. 25 January 1991.
6º8'N 60º3'W, Elevation 107 m.
Mixed forest on alluvial sand and gravel.
Collected with D. Gopaul; C. Horn; J. Wiersma.

3804 - 3805.
Kurupung Landing, ±200 m S of airstrip. 27 January 1991.
6º13'N 60º14'W, Elevation 137 m.
Wet disturbed forest.
Collected with J. Richards.

3806 - 3809.
Near Golden Star Resources Eping R. Camp, 4 km from Mazaruni River. 30 January 1991.
6º10'N 60º3'W, Elevation 107 m.
Mixed forest, white sand terrace, alluvial sediments.
Collected with A. Stobey.

3810 - 3820.
Permanent miner's campsite "riverhead" near Eping River, E of several diamond pits. 2 February 1991.
6º0'N 60º10'W, Elevation 122 m.
Collected with A. Stobey.

3821 - 3829.
E side - confluence of Eping and "NW Branch" Eping River. 2 February 1991.
6º0'N 60º10'W, Elevation 122 m.
Rocky shore and ledges above sandy riverbank. Weathered shale with quartz intrusions.
Collected with A. Stobey.

3830 - 3839.
Basecamp, headwaters of Eping River, near diamond miner's camps. 5 February 1991.
6º0'N 60º10'W, Elevation 122 m.
Disturbed area in gravel terrace.
Collected with A. Stobey.

3840 - 3844.
Basecamp near diamond miner's camps, along trail by gorge of Eping River W branch. 5 February 1991.
6º0'N 60º10'W, Elevation 122 m.
Wet forest. Weathered shale, metamorphic and quartz rocks.
Collected with A. Stobey.

3845 - 3846.
Along Eping River. 5 February 1991.
6º0'N 60º10'W, Elevation 122 m.
Forest.
Collected with A. Stobey.

3847 - 3874; 3882 - 3885.
Eping River. 6 February 1991.
6º0'N 60º10'W, Elevation 122 m.
Around campsites and old mine pits. Riverine sediments and sand-quartzite terrace.
Collected with A. Stobey.

3875 - 3881.
Near Eping River Base Camp. 6 February 1991.
6º0'N 60º10'W, Elevation 122 m.
In forest and along creeks.
Collected with A. Stobey.

3886 - 3900.
West Branch of Eping River. 7 February 1991.
6°0'N 60°10'W, Elevation 122 to 152 m.
Disturbed areas near old mine works and camps. Alluvial terrace and river flood plain..
Rocky gorge
Collected with A. Stobey.

3901 - 3971.
N bank, W branch of Eping River. 7 February 1991.
5°58'N 60°13'W, Elevation 396 m.
Disturbed area around camps.
Collected with A. Stobey.

3973 - 3974.
N bank, W Branch of Eping River, around Mako camp. 7 February 1991.
5°58'N 60°13'W, Elevation 396 m.
Disturbed area.
Collected with A. Stobey.

3975 - 3984.
Along slope below Mt. Raschaxe. 7 February 1991.
5°58'N 60°13'W, Elevation 457 to 762 m.
Forest.
Collected with A. Stobey.

3985 - 3988.
Near Eping River. 10 February 1991.
5°58'N 60°13'W, Elevation 396 m.
Disturbed campsite.
Collected with A. Stobey.

3989 - 3992.
Mountain near Eping River. At base of 90 m cliff. 14 February 1991.
5°58'N 60°14'W, Elevation 762 m.
Weathered granite, shale, and slate.
Collected with A. Stobey; O. Williams.

3993 - 4005.
West branch, Eping River; near camp. 15 February 1991.
5°58'N 60°14'W, Elevation 457 m.
Around mined areas and forest. Sandy gravel soil.
Collected with A. Stobey.

4006 - 4026.
Valley of West Branch, Eping River. 16 February 1991.
5°58'N 60°14'W, Elevation 457 m.
Sandy, rocky mined area.
Collected with A. Stobey.

4027 - 4043.
Along Perenong River. 21 February 1991.
6°6'N 60°3'W, Elevation 125 m.
Forest on floodplain.

4044 - 4060.
Along road from Ariching airstrip to Mazaruni River. 22 February 1991.
6°10'N 60°7'W, Elevation 137 m.
Secondary growth along road through mixed forest. Red clay soil.

Trip Number 9: Tapacuma

Collections: 4061 - 4149. 4 March 1991 to 6 March 1991

4061 - 4095; 4130.
Enroute S from St. Dennys Mission to Tapacuma Lake via Arapiaku Creek. 4 March 1991.
7°15'N 58°35'W, Elevation 12 m.
Disturbed low ground near lake. Also sandy hillside with 2E forest.
Collected with D. Gopaul; C. Horn; J. Wiersema.

4096.
Kabakaburi, E bank of Pomeroon River. 4 March 1991.
7°15'N 58°43'W, Elevation 9 m.
Disturbed yard.
Collected with D. Gopaul; C. Horn; J. Wiersema.

4097 - 4103.
From Lake Tapacuma through Red Lock Canal. 5 March 1991.
7°15'N 58°33'W, Elevation 9 m.
From edge of canals and lakeside.
Collected with D. Gopaul; C. Horn; J. Wiersema.

4104 - 4107.
N shore of Mainstay Lake. 5 March 1991.
7°15'N 58°33'W, Elevation 9 m.
In woods and along shore.
Collected with D. Gopaul; C. Horn; J. Wiersema.

4108 - 4109.
Along side of canal near Red Lock on way to Copoey Lake. 5 March 1991.
7°15'N 58°33'W, Elevation 9 m.
Collected with D. Gopaul; C. Horn; J. Wiersema.

4110 - 4116; 4122.
Mainstay Lake, N side. 5 March 1991.
7°15'N 58°33'W, Elevation 9 m.
In woods and along shore.
Collected with D. Gopaul; C. Horn; J. Wiersema.

4117 - 4121.
N shore of Copoey Lake, along jeep road, and between lake and canal. 5 March 1991.
7°13'N 58°30'W, Elevation 9 m.
Sandy ground.
Collected with D. Gopaul; C. Horn; J. Wiersema.

4123 - 4129.
Near St. Denys Mission, along road N of compound, 0.5 - 1.5 km N of pump station. 5 March 1991.
7°15'N 58°35'W, Elevation 12 m.
Collected with D. Gopaul; C. Horn; J. Wiersema.

4131 - 4141.
Tapacuma Creek. 6 March 1991.
7°13'N 58°38'W, Elevation 9 m.
Along banks of creek.
Collected with D. Gopaul; C. Horn; J. Wiersema.

4142 - 4149.
Pomeroon River near Dawa, below confluence of Arapirka River. 6 March 1991.
7°16'N 58°41'W, Elevation 6 m.
Along banks of river.
Collected with D. Gopaul; C. Horn; J. Wiersema.

Trip Number 10: East Demerara Water Conservancy

Collections: 4150 - 4173. 8 March 1991 to 9 March 1991

4150 - 4163.
To E Demerara Water Conservancy, Lama Creek. 8 March 1991.
6°40'N 58°0'W, Elevation 0 to 12 m.
Flooded marshland, sides of canals; growing in floating mat of vegetation or bottom.
Collected with D. Gopaul; C. Horn; J. Wiersema.

4164 - 4167.
To East Demerara Water Conservancy, Lama Creek. 9 March 1991.
6°40'N 58°0'W, Elevation 0 to 12 m.
Flooded marshland, sides of canals; growing in floating mat of vegetation or bottom.
Collected with D. Gopaul; C. Horn; J. Wiersema.

4168 - 4173.
Near Lama Guest House on Lama creek, E Demerara Water Conserv., and beside canal. 9 March 1991.
6°33'N 58°1'W, Elevation 6 m.
Collected with D. Gopaul; C. Horn; J. Wiersema.

Trip Number 11: Baramita - Matthews Ridge

Collections: 4174 - 4522. 3 April 1991 to 2 May 1991

4174 - 4202.
Along trail between Baramita airstrip toward Millionaire. 3 April 1991.
7°22'N 60°28'W, Elevation 91 m.
Mixed forest, lowland brown mud, red clay soils.
Collected with D. Gopaul; J. Bowdre.

4203 - 4210.
From government buildings in Baramita, along trail towards Barama bottom side. 4 April 1991.
7°22'N 60°29'W, Elevation 91 m.

Mixed lowland forest, disturbed growth along trail.
Collected with D. Gopaul; J. Bowdre.

4211 - 4215.
Edge of airstrip, Baramita. 4 April 1991.
7°22'N 60°28'W, Elevation 91 m.
Collected with D. Gopaul; J. Bowdre.

4216 - 4221.
Along trail towards Matthews Ridge, E end to 0.5 km N of Baramita airstrip. 4 April 1991.
7°22'N 60°28'W, Elevation 91 m.
Disturbed forest and trailside.
Collected with D. Gopaul; J. Bowdre.

4222 - 4252.
Along Barama Line, W end Baramita airstrip SE to Millionaire. 5 April 1991.
7°22'N 60°28'W, Elevation 91 m.
Disturbed mixed lowland forest.
Collected with D. Gopaul; J. Bowdre.

4253 - 4270.
Site of old mining operation "Old World". 6 April 1991.
7°22'N 60°28'W, Elevation 91 m.
Disturbed mixed forest and along edge of man-made swamp.
Collected with D. Gopaul; J. Bowdre.

4271 - 4296.
Baramita. Clearings near airstrip. 7 April 1991.
7°23'N 60°29'W, Elevation 91 m.
Disturbed area.
Collected with D. Gopaul; J. Bowdre.

4297 - 4332.
Aranka River head, small settlement NW of Baramita. 9 April 1991.
7°25'N 60°32'W, Elevation 107 m.
Disturbed forest, 2E growth around farms, lowland. Brown sand to clay soil.
Collected with D. Gopaul; J. Bowdre.

4333 - 4366.
Aranka Head. 10 April 1991.
7°25'N 60°32'W, Elevation 107 m.
Mixed lowland forest, disturbed areas around farms.
Collected with D. Gopaul; J. Bowdre.

4367 - 4396.
Trail between Aranka Head and Barima Head, NW of Kariako River. 13 April 1991.
7°30'N 60°35'W, Elevation 76 to 122 m.
Mixed forest, slopes and terraces.
Collected with D. Gopaul; J. Bowdre.

4397 - 4413.
Barima Head, along Barima River. 15 April 1991.
7°35'N 60°35'W, Elevation 91 to 122 m.
Mixed forest, alluvial terrace.
Collected with D. Gopaul; J. Bowdre.

4414 - 4426.
Powis Creek, 15 km NE of Baramita, along trail to Whana River. 20 April 1991.
7°28'N 60°23'W, Elevation 76 m.
Hills, mixed forest with granite outcrops. Also muddy floodplain of creek.
Collected with D. Gopaul; J. Bowdre.

4427 - 4435.
Powis Creek, 15 km NE of Baramita. 21 April 1991.
7°28'N 60°23'W, Elevation 76 m.
Trail and treefalls in hilly mixed forest.
Collected with D. Gopaul; J. Bowdre.

4436 - 4451.
Road from Matthews Ridge to Arakaka, along Mariparu creek trail. 25 April 1991.
7°36'N 60°2'W, Elevation 46 to 91 m.
Disturbed vegetation along road, mixed lowland forest.
Collected with D. Gopaul; J. Bowdre.

4452 - 4454.
Matthews Ridge Hospital and area. 25 April 1991.
7°30'N 60°11'W, Elevation 107 m.
Collected with D. Gopaul; J. Bowdre.

4455 - 4459.
Near Papaya Creek, ±10 km W of Matthews Ridge, near old road. 25 April 1991.
7°32'N 60°14'W, Elevation 46 m.
Collected with D. Gopaul; J. Bowdre.

4460 - 4464.
Whana Creek, at end of old road to Matthews Ridge. 25 April 1991.
7°32'N 60°14'W, Elevation 46 m.
Around clearings.
Collected with D. Gopaul; J. Bowdre.

4465 - 4467.
To 1 km N of Matthews Ridge Guest House, along old tractor line. 27 April 1991.
7°31'N 60°11'W, Elevation 183 to 273 m.
Secondary regrowth of cleared road.
Collected with D. Gopaul; J. Bowdre.

4468 - 4493.
Mg waste flats S of railyard, Matthews Ridge to ridge of "Blue Mountain". 28 April 1991.
7°26'N 60°11'W, Elevation 91 to 396 m.
Mixed forest, regrowth vegetation on old road and farm.
Collected with D. Gopaul; J. Bowdre.

4494 - 4497.
Matthews Ridge, from near railyard to forest ±2 km S. 30 April 1991.
7°30'N 60°8'W, Elevation 107 m.
Disturbed areas, roadside, and forest.
Collected with D. Gopaul; J. Bowdre.

4498 - 4513.
Matthews Ridge railyard of Railway Bond Bldg. 30 April 1991.
7°30'N 60°8'W, Elevation 107 m.
Clearing grazed by goats.
Collected with D. Gopaul; J. Bowdre.

4514 - 4518.
Near Matthews Ridge railroad line; 3 - 6 km S of Matthews Ridge. 30 April 1991.
7°30'N 60°8'W, Elevation 107 m.
Forest.
Collected with D. Gopaul; J. Bowdre.

4519 - 4522.
Vicinity of Matthews Ridge Hospital. 2 May 1991.
7°30'N 60°11'W, Elevation 107 m.
Outside building.
Collected with D. Gopaul; J. Bowdre.

Trip Number 12: North Fork River - Ebini Mountain

Collections: 4805 - 4945. 16 May 1991 to 25 May 1991

4805.
Creek landing and road near Ya Ya Landing, ±1 km E of Essequibo River. 16 May 1991.
5°25'N 58°38'W, Elevation 30 m.
Collected with C.L. Kelloff; A. Stobey.

4806 - 4813.
North Fork River, along Potaro - Konawark Road, ±6 km S of Mahdia. 18 May 1991.
5°12'N 59°8'W, Elevation 137 m.
Disturbed secondary forest.
Collected with C.L. Kelloff; A. Stobey.

4814 - 4826.
Along North Fork River, 0.5 - 1.5 km N of Konawark Road, near Porkknocker works. 18 May 1991.
5°9'N 59°8'W, Elevation 137 m.
Disturbed mixed forest.
Collected with C.L. Kelloff; A. Stobey.

4827 - 4865.
Along North Fork River. 19 May 1991.
5°9'N 59°8'W, Elevation 105 m.
Mixed forest. Alluvial brown muddy soil with gravel on higher ground.
Collected with C.L. Kelloff; A. Stobey.

4866 - 4879.
Camp on "Blackwater Creek" (tributary to North Fork River). 22 May 1991.
5°11'N 59°9'W, Elevation 274 to 335 m.
Forest on slopes above creek, and rocky creek ravine.
Collected with C.L. Kelloff; A. Stobey.

4880 - 4900.
Overlooking Blackwater River, facing W. 22 May 1991.
5°11'N 59°9'W, Elevation 411 to 442 m.
On rocks of ridge: *Clusia* spp; epipetric Araceae, large erect bromeliads.
Collected with C.L. Kelloff; A. Stobey.

4901 - 4931.
Blackwater Creek Camp NW along ravine. 23 May 1991.
5°12'N 59°10'W, Elevation 274 to 610 m.
Rocky river ravine, steep slopes. Mixed premontane wet forest, boulders. Densely forested flats.
Collected with C.L. Kelloff; A. Stobey.

4932 - 4939.
Blackwater Creek to Porkknocker camp near junction, North Fork River, Minihaha Creek. 24 May 1991.
5°10'N 59°9'W, Elevation 122 to 366 m.
Mixed forest on rocky slopes.
Collected with C.L. Kelloff; A. Stobey.

4940 - 4945.
Porkknocker camp, end of Mahdia Road, confluence of North Fork River and Minihaha Creek. 25 May 1991.
5°9'N 59°8'W, Elevation 107 m.
Clearing around camp.
Collected with C.L. Kelloff; A. Stobey.

Trip Number 13:
Kobadai Savanna - Haiamatipu

Collections: 4578 - 4804. 16 June 1991 to 23 June 1991

4578 - 4602.
E of Arabaru Creek; Kobadai Savanna. 16 June 1991.
5°27'N 60°39'W, Elevation 488 to 503 m.
Open white sand savanna with herb covering, low shrubs.
Collected with B. Hoffman; K. Lance.

4603 - 4623.
3 km SE of S end of Haiamatipu, above Kobadai Savanna. 16 June 1991.
5°27'N 60°39'W, Elevation 550 to 610 m.
Forest on rocky ground; also rocky savanna.
Collected with B. Hoffman; K. Lance.

4624 - 4653.
E side of Arabaru Creek, near S end of Haiamatipu. 17 June 1991.
5°27'N 60°35'W, Elevation 488 m.
Low white sand forest and sandy clearing.
Collected with B. Hoffman; K. Lance.

4654 - 4674.
Base of SE end of Haiamatipu, along Kongwak Creek. 18 June 1991.
5°28'N 60°38'W, Elevation 550 to 610 m.
Morabukea (*Mora gonggrijpii*) forest along creek.
Collected with B. Hoffman; K. Lance.

4675.
±1 km SW end of Haiamatipu to South edge of Haiamatipu. 19 June 1991.
5°28'N 60°38'W, Elevation 550 to 610 m.
Hillside Morabukea (*Mora gonggrijpii*) forest.
Collected with B. Hoffman; K. Lance.

4676 - 4708.
±1 km SW end of Haiamatipu to S edge of Haiamatipu. 19 June 1991.
5°28'N 60°38'W, Elevation 610 to 760 m.
Mid-elevation low forest.
Collected with B. Hoffman; K. Lance.

4709 - 4738.
To plateau at South end of Haiamatipu. 20 June 1991.
5°28'N 60°32'W, Elevation 610 to 914 m.
Low forest, many epiphytes, heavy moss overgrowth. Large aroids.
Collected with B. Hoffman; K. Lance.

4739 - 4741.
Near Kongwak Creek camp, foot of SW end Haiamatipu. 20 June 1991.
5°28'N 60°38'W, Elevation 550 m.
Eperua spp. forest, white sand, sandy clearing.
Collected with B. Hoffman; K. Lance.

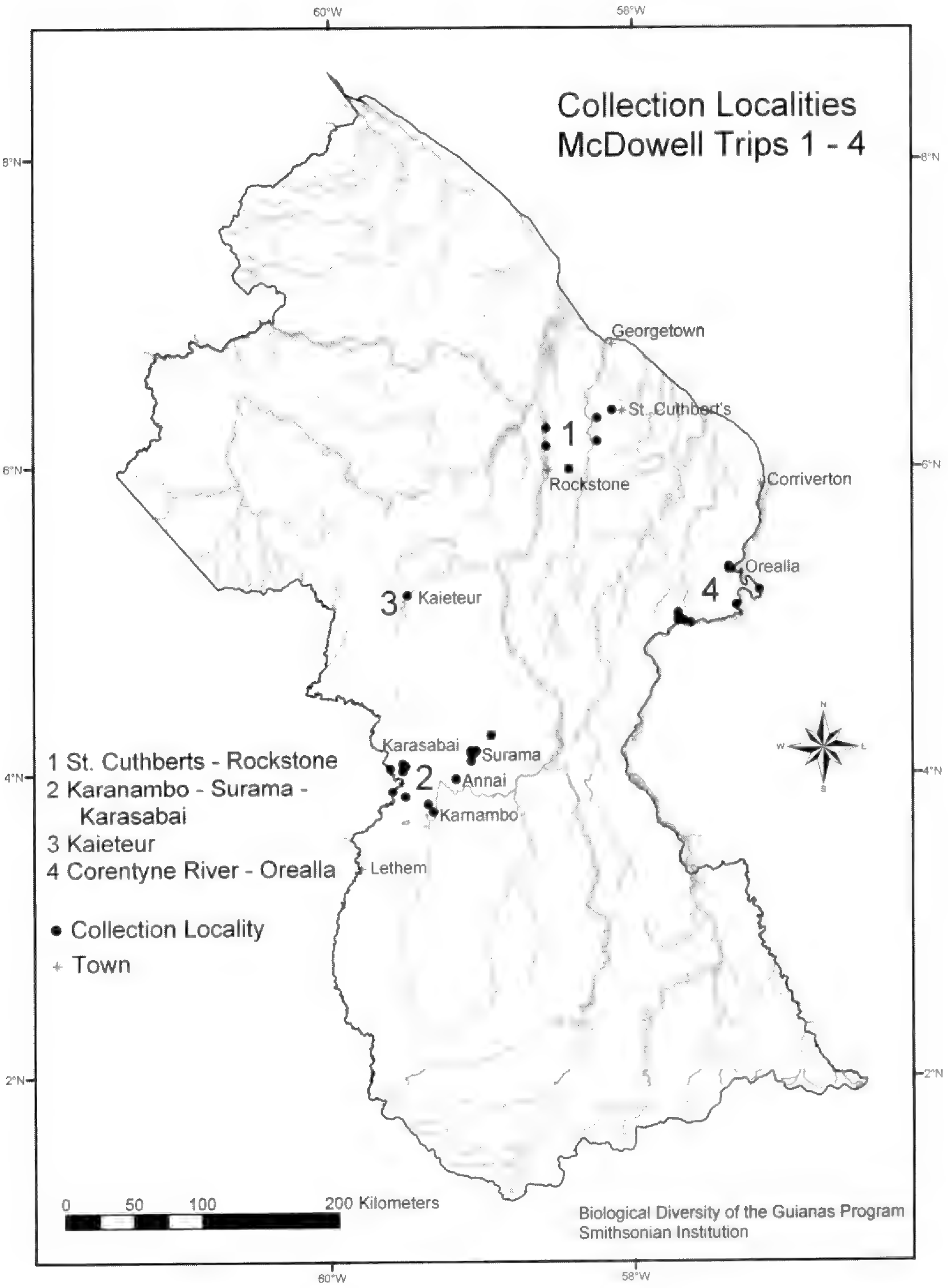
4742 - 4775; 4777.
Route to Crommer's Farm, 2 km SE of Haiamatiupu. 21 June 1991.
5°27'N 60°31'W, Elevation 550 m.
White sand forest, disturbed farmsite.
Collected with B. Hoffman.

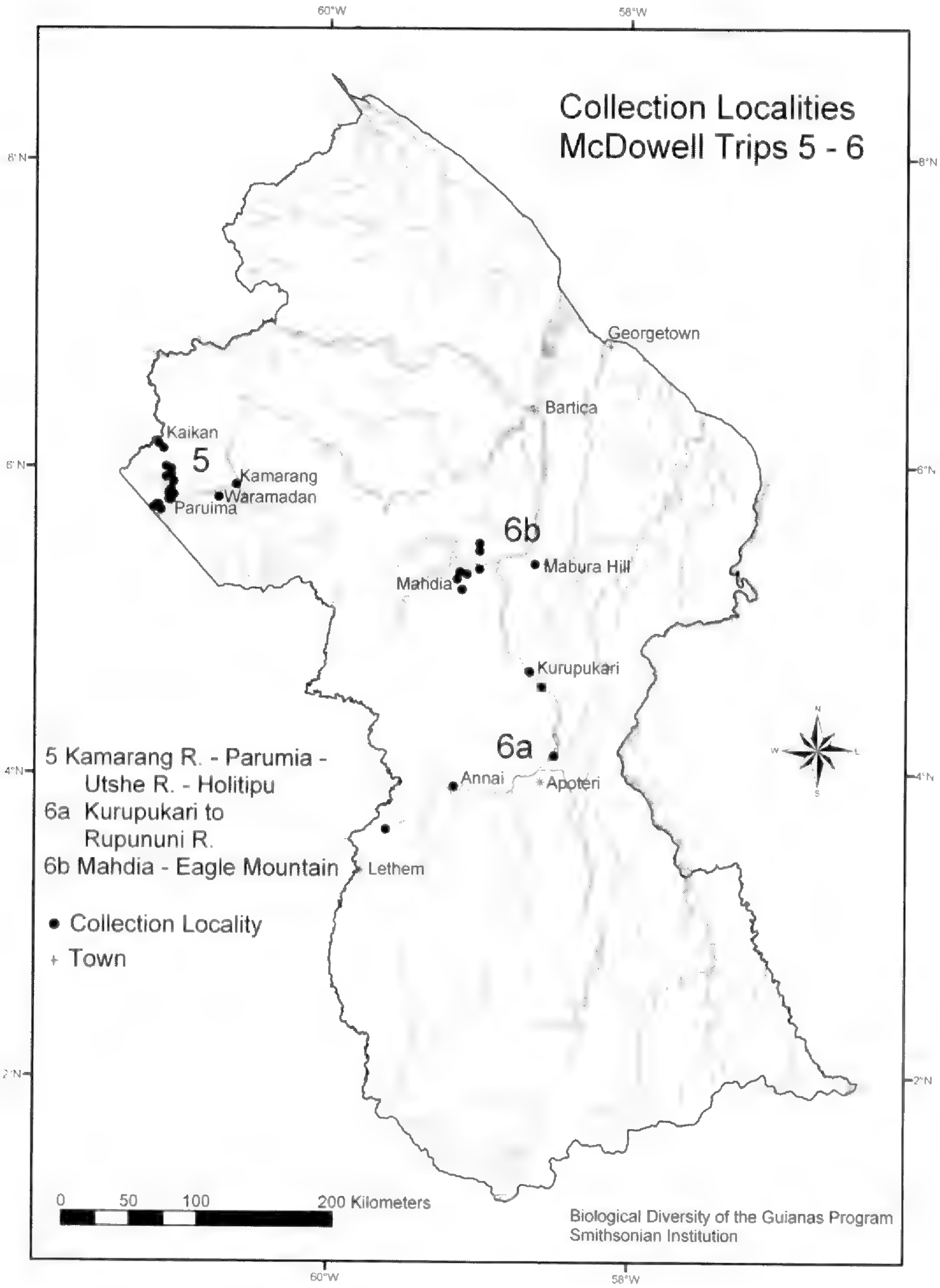
4776.
3 km SE of S end of Haiamatipu, landing near Arabaru Creek. 22 June 1991.
5°27'N 60°39'W, Elevation 488 m.
House clearing.
Collected with B. Hoffman; K. Lance.

4778 - 4794.
East of Arabaru Creek; Kobadai Savanna. 22 June 1991.
5°27'N 60°39'W, Elevation 488 to 500 m.
White sand savanna; open with herb cover and low shrubs.
Collected with B. Hoffman.

4795 - 4804.
Arabaru Creek, ±5 km S of confluence of Kako River. 23 June 1991.
5°35'N 60°39'W, Elevation 488 m.
Banks of creek, at flood level.
Collected with B. Hoffman; K. Lance.

III: COLLECTION LOCALITY MAPS




Collection Localities
McDowell Trips 5 - 6
60°W
58°W
8°N
6°N
4°N
2°N
Georgetown
Bartica
Kaikan
5
Kamarang
Waramadan
Paruima
6b
Mabura Hill
Mahdia
Kurupukari
6a
Annai
Apoteri
Lethem
5 Kamarang R. - Parumia -
Utshe R. - Holitipu
6a Kurupukari to
Rupununi R.
6b Mahdia - Eagle Mountain
Collection Locality
Town
N
W
E
S
0 50 100 200 Kilometers
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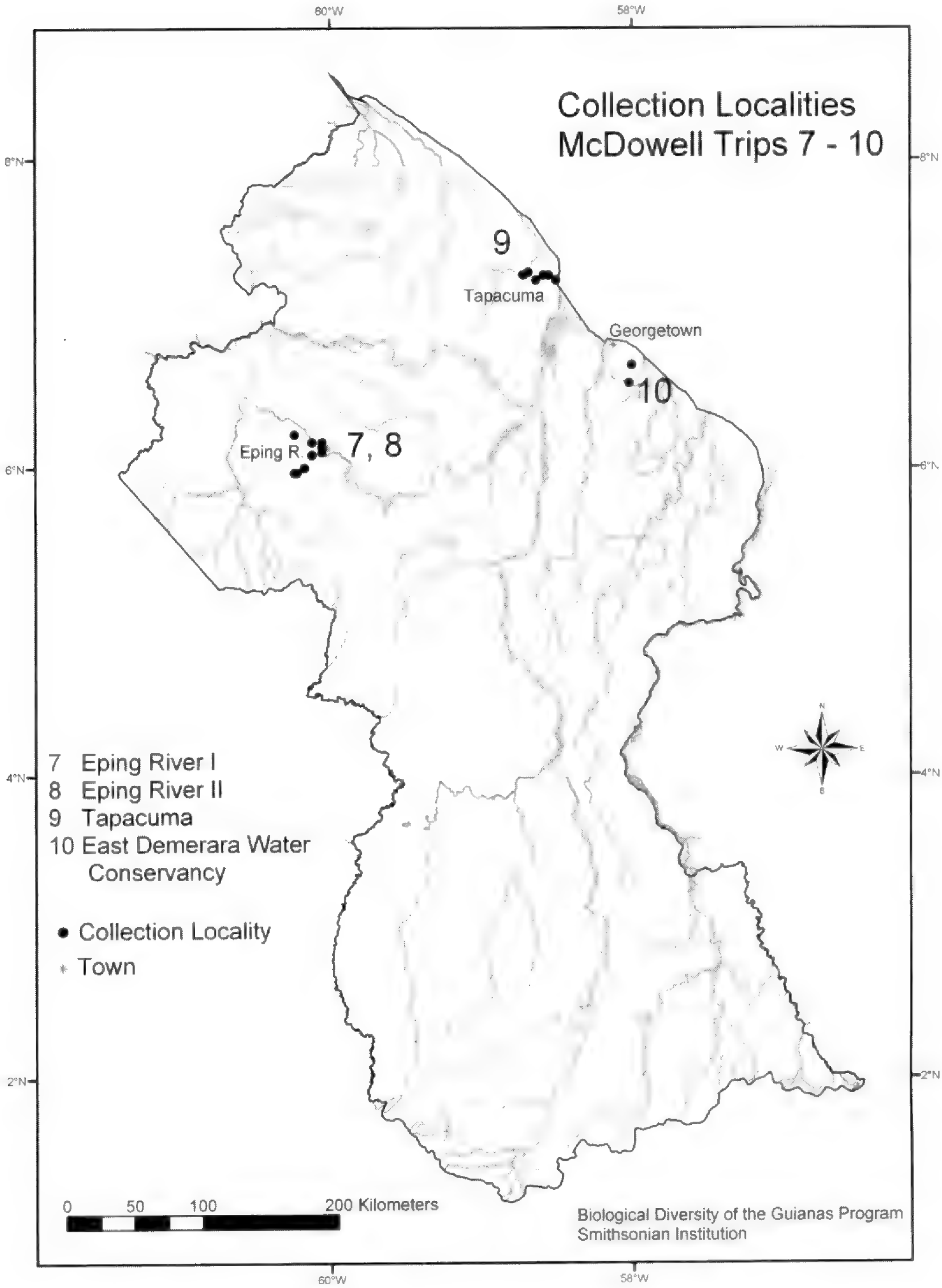
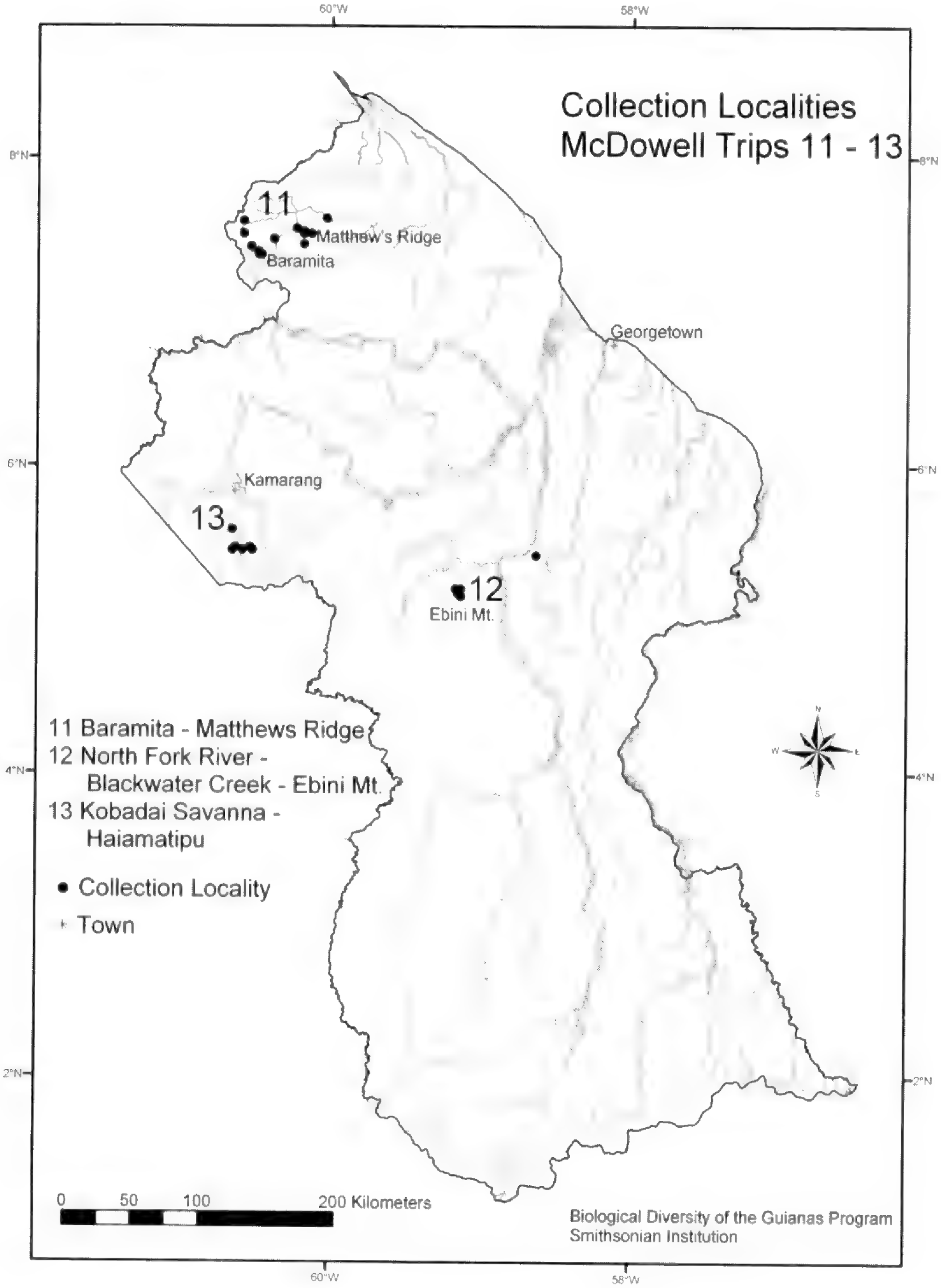

Collection Localities
McDowell Trips 7 - 10
60°W
58°W
8°N
6°N
4°N
2°N
9
Tapacuma
Georgetown
10
Eping R.
7, 8
7 Eping River I
8 Eping River II
9 Tapacuma
10 East Demerara Water Conservancy
Collection Locality
Town
N
W
E
S
0 50 100 200 Kilometers
Biological Diversity of the Guianas Program
Smithsonian Institution


60°W
58°W
8°N
6°N
4°N
2°N
Collection Localities
McDowell Trips 11 - 13
11
Matthew's Ridge
Baramita
Georgetown
Kamarang
13
12
Ebini Mt.
11 Baramita - Matthews Ridge
12 North Fork River -
Blackwater Creek - Ebini Mt.
13 Kobadai Savanna -
Haiamatipu
Collection Locality
Town
N
W
E
S
0 50 100 200 Kilometers
Biological Diversity of the Guianas Program
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IV: COLLECTIONS BY NUMBER

1700 Ochnaceae: *Sauvagesia sprengelii* A. St.-Hil.
1701 Burmanniaceae: *Burmannia bicolor* Mart.
1702 Eriocaulaceae: *Paepalanthus polytrichoides* Kunth
1703 Cyperaceae: *Rhynchospora barbata* (Vahl) Kunth
1704 Xyridaceae: *Xyris guianensis* Steud.
1705 Xyridaceae: *Xyris savanensis* Miq.
1706 Eriocaulaceae: *Syngonanthus gracilis* (Bong.) Ruhland
1707 Eriocaulaceae: *Syngonanthus umbellatus* (Lam.) Ruhland f. *minor* (Miq.) Moldenke
1708 Polygalaceae: *Polygala adenophora* DC.
1709 Burmanniaceae: *Burmannia capitata* (Walter ex J.F. Gmel.) Mart.
1710 Lentibulariaceae: *Utricularia longeciliata* A. DC.
1711 Gentianaceae: *Tetrapollinia caerulescens* (Aubl.) Maguire & B.M. Boom
1712 Lentibulariaceae: *Utricularia juncea* Vahl
1713 Clusiaceae: *Vismia gracilis* Hieron.
1714 Malpighiaceae: *Byrsonima crassifolia* (L.) Kunth
1715 Lauraceae: *Cassytha filiformis* L.
1716 Cyperaceae: *Hypolytrum pulchrum* (Rudge) H. Pfeiff.
1717 Melastomataceae: *Tococa nitens* (Benth.) Triana
1718 Orchidaceae: *Catasetum* cf. *discolor* (Lindl.) Lindl.
1719 Cyperaceae: *Lagenocarpus rigidus* (Kunth) Nees ssp. *tremulus* (Nees) T. Koyama & Maguire
1720 Sterculiaceae: *Waltheria indica* L.
1721 Solanaceae: *Solanum paludosum* Moric.
1722 Dennstaedtiaceae: *Pteridium aquilinum* (L.) Kuhn var. *arachnoideum* (Kaulf.) Maxon
1723 Solanaceae: *Solanum stramoniifolium* Jacq.
1724 Bignoniaceae: *Arrabidaea cinerea* Bureau ex K. Schum.
1725 Smilacaceae: *Smilax* cf. *cumanensis* Humb. & Bonpl. ex Willd.
1726 Fabaceae-Caesal.: *Chamaecrista desvauxii* (Collad.) Killip var. *mollissima* (Benth.) H.S. Irwin & Barneby
1727 Polygonaceae: *Coccoloba parimensis* Benth.
1728 Theaceae
1729 Eriocaulaceae: *Paepalanthus bifidus* (Schrad.) Kunth
1730 Rubiaceae: *Coccocypselum*
1731 Humiriaceae: *Humiria balsamifera* Aubl. var. *guianensis* (Benth.) Cuatrec.
1732 Dilleniaceae: *Tetracera asperula* Miq.
1733 Asteraceae: *Unxia camphorata* L. f.
1734 Melastomataceae: *Comolia microphylla* Benth.
1735 Clusiaceae: *Clusia grandiflora* Splitg.
1736 Sapotaceae
1737 Fabaceae-Caesal.: *Senna latifolia* (G. Mey.) H.S. Irwin & Barneby
1738 Bromeliaceae: *Aechmea mertensii* (G. Mey.) Schult. & Schult. f.
1739 Bromeliaceae: *Ananas parguazensis* L.A. Camargo & L.B. Sm.
1740 Anacardiaceae: *Tapirira guianensis* Aubl.
1741 Chrysobalanaceae
1742 Fabaceae-Papil.: *Ormosia*
1743 Gentianaceae: *Lisianthus*
1744 Asclepiadaceae
1745 Myrtaceae: *Myrcia sylvatica* (G. Mey.) DC.
1746 Fabaceae-Caesal.
1747 Rubiaceae
1748 Indet.
1749 Myrtaceae: *Eugenia anastomosans* DC.
1750 Viscaceae: *Phoradendron perrottetii* (DC.) Eichler
1751 Polygalaceae: *Polygala variabilis* Kunth
1752 Cyperaceae: *Lagenocarpus verticillatus* (Spreng.) T. Koyama & Maguire

1753 Myrtaceae: *Eugenia punicifolia* (Kunth) DC.
1754 Poaceae: *Gymnopogon foliosus* (Willd.) Nees
1755 Bromeliaceae: *Tillandsia monadelpha* (E. Morren) Baker
1756 Schizaeaceae: *Schizaea incurvata* Schkuhr
1757 Cyperaceae: *Bulbostylis junciformis* (Kunth) C.B. Clarke
1758 Lentibulariaceae: *Utricularia sandwithii* P. Taylor
1759 Lycopodiaceae: *Lycopodium* sp.
1760 Droseraceae: *Drosera* cf. *intermedia* Hayne
1761 Cyperaceae: *Eleocharis minima* Kunth
1762 Fabaceae-Papil.: *Desmodium* sp.
1763 Melastomataceae: *Tococa nitens* (Benth.) Triana
1764 Myrtaceae: *Marlierea montana* (Aubl.) Amshoff
1765 Blechnaceae: *Blechnum serrulatum* Rich.
1766 Melastomataceae: *Desmoscelis villosa* (Aubl.) Naudin
1766 a Melastomataceae: *Macairea pachyphylla* Benth.
1767 Bombacaceae: *Pachira aquatica* Aubl.
1768 Rubiaceae: *Retiniphyllum schomburgkii* (Benth.) Müll. Arg.
1769 Clusiaceae: *Clusia nemorosa* G. Mey.
1770 Xyridaceae: *Xyris jupicai* Rich.
1771 Onagraceae: *Ludwigia nervosa* (Poir.) H. Hara
1772 Cyperaceae: *Rhynchospora holoschoenoides* (Rich.) Herter
1773 Melastomataceae: *Comolia villosa* (Aubl.) Triana
1774 Melastomataceae: *Macairea pachyphylla* Benth.
1775 Melastomataceae: *Comolia villosa* (Aubl.) Triana
1776 Vitaceae: *Cissus erosa* Rich.
1777 Gentianaceae
1778 Xyridaceae: *Xyris involucrata* Nees
1779 Marcgraviaceae: *Norantea guianensis* Aubl.
1780 Cladoniaceae: *Cladonia*
1781 Bryophyte
1782 Lichen
1783 Polyporaceae: *Lentinus crinitus* Fr.
1784 Cyperaceae: *Fuirena umbellata* Rottb.
1785 Melastomataceae: *Miconia racemosa* (Aubl.) DC.
1786 Solanaceae: *Solanum*
1787 Boraginaceae: *Cordia schomburgkii* DC.
1788 Asteraceae: *Chromolaena odorata* (L.) R.M. King & H. Rob.
1789 Fabaceae-Papil.: *Desmodium molliculum* (Kunth) DC.
1790 Poaceae: *Eragrostis unioloides* (Retz.) Nees
1791 Fabaceae-Mimos.: *Mimosa myriadenia* (Benth.) Benth.
1792 Solanaceae: *Solanum coriaceum* Dunal
1793 Poaceae: *Ichnanthus pallens* (Sw.) Munro ex Benth.
1794 Piperaceae: *Piper hostmannianum* (Miq.) C. DC.
1795 Gleicheniaceae: *Dicranopteris pectinata* (Willd.) Underw.
1796 Cyperaceae: *Fimbristylis miliacea* (L.) Vahl
1797 Cyperaceae: *Rhynchospora pubera* (Vahl) Boeck. ssp. *pubera*
1798 Onagraceae: *Ludwigia*
1799 Asteraceae: *Wulffia baccata* (L.) Kuntze
1800 Asteraceae: *Mikania banisteriae* DC.
1801 Malvaceae: *Hibiscus bifurcatus* Cav.
1802 Passifloraceae: *Passiflora glandulosa* Cav.
1803 Passifloraceae
1804 Passifloraceae: *Passiflora coccinea* Aubl.
1805 Convolvulaceae: *Ipomoea anisomeres* B.L. Rob. & Bartlett
1806 Solanaceae: *Solanum coriaceum* Dunal
1807 Gleicheniaceae: *Dicranopteris pectinata* (Willd.) Underw.
1808 Melastomataceae: *Miconia racemosa* (Aubl.) DC.
1809 Fabaceae-Mimos.: *Pentaclethra macroloba* (Willd.) Kuntze
1810 Solanaceae: *Solanum leucocarpon* Dunal
1811 Loranthaceae: *Struthanthus* sp.
1812 Melastomataceae: *Clidemia rubra* (Aubl.) Mart.
1813 Fabaceae-Mimos.: *Mimosa myriadenia* (Benth.) Benth.
1814 Siparunaceae: *Siparuna guianensis* Aubl.

1815 Annonaceae: *Rollinia exsucca* (DC. ex Dunal) A. DC.
1816 Melastomataceae: *Miconia mirabilis* (Aubl.) L.O. Williams
1817 Melastomataceae: *Miconia myriantha* Benth.
1818 Malpighiaceae: *Banisteriopsis*
1819 Melastomataceae: *Henriettea multiflora* Naudin
1820 Malpighiaceae: *Stigmaphyllon sinuatum* (DC.) A. Juss.
1821 Solanaceae: *Solanum crinitum* Lam.
1822 Piperaceae: *Piper hostmannianum* (Miq.) C. DC.
1823 Piperaceae: *Piper hostmannianum* (Miq.) C. DC.
1824 Melastomataceae: *Clidemia hirta* (L.) D. Don
1825 Malpighiaceae: *Byrsonima stipulacea* A. Juss.
1826 Apocynaceae: *Himatanthus bracteatus* (A. DC.) Woodson var. *revolutus* (Huber) Plumel
1827 Asteraceae: *Calea caleoides* (DC.) H. Rob.
1828 Bignoniaceae: *Arrabidaea corallina* (Jacq.) Sandwith
1829 Combretaceae: *Combretum fruticosum* (Loefl.) Stuntz
1830 Bixaceae: *Cochlospermum*
1831 Convolvulaceae: *Operculina hamiltonii* (G. Don) D.F. Austin & Staples
1832 Bignoniaceae: *Memora heterophylla* (Kraenzl.) Sandwith
1833 Combretaceae: *Combretum fruticosum* (Loefl.) Stuntz
1834 Fabaceae-Papil.: *Dalbergia monetaria* L. f.
1835 Malvaceae: *Wissadula periplocifolia* (L.) C. Presl ex Thwaites
1836 Rubiaceae: *Morinda* cf. *brachycalyx* (Bremek.) Steyerm.
1837 Sterculiaceae: *Waltheria involucrata* Benth.
1838 Verbenaceae: *Vitex*
1839 Flacourtiaceae: *Casearia spinescens* (Sw.) Griseb.
1840 Dilleniaceae: *Curatella americana* L.
1841 Fabaceae-Caesal.: *Bauhinia ungulata* L.
1842 Fabaceae-Papil.: *Dioclea guianensis* Benth.
1843 Fabaceae-Caesal.: *Cassia moschata* Kunth
1844 Solanaceae: *Solanum monachophyllum* Dunal
1845 Flacourtiaceae: *Casearia spinescens* (Sw.) Griseb.
1846 Smilacaceae: *Smilax* sp.
1847 Malpighiaceae: *Byrsonima crassifolia* (L.) Kunth
1848 Fabaceae-Papil.: *Clitoria guianensis* (Aubl.) Benth.
1849 Verbenaceae: *Lippia origanoides* Kunth
1850 Menispermaceae: *Cissampelos ovalifolia* DC.
1851 Rubiaceae: *Morinda tenuiflora* (Benth.) Steyerm.
1852 Rubiaceae: *Diodia apiculata* (Willd. ex Roem. & Schult.) K. Schum.
1853 Gentianaceae: *Coutoubea ramosa* Aubl.
1854 Myrtaceae: *Eugenia* aff. *cribrata* McVaugh
1855 Bombacaceae: *Quararibea*
1856 Acanthaceae: *Justicia schomburgkiana* (Nees) V.A.W. Graham
1857 Fabaceae-Papil.: *Machaerium inundatum* (Mart. ex Benth.) Ducke
1858 Vitaceae: *Cissus erosa* Rich.
1859 Verbenaceae: *Lippia betulifolia* Kunth
1860 Fabaceae-Papil.: *Etaballia dubia* (Kunth) Rudd
1861 Lauraceae: *Endlicheria multiflora* (Miq.) Mez
1862 Rubiaceae: *Psychotria bracteocardia* (DC.) Müll. Arg.
1863 Ochnaceae: *Ouratea*
1864 Orchidaceae: *Cattleya violacea* (Kunth) Rolfe
1865 Bignoniaceae: *Jacaranda obtusifolia* Bonpl. ssp. *rhombifolia* (G. Mey.) A.H. Gentry
1866 Turneraceae: *Turnera*
1867 Cyperaceae: *Rhynchospora holoschoenoides* (Rich.) Herter
1868 Myrtaceae: *Eugenia*
1869 Rubiaceae: *Palicourea croceoides* Ham.
1870 Ochnaceae: *Ouratea rigida* Engl.
1871 Loranthaceae: *Phthirusa rufa* (Mart.) Eichler
1872 Sapotaceae

1873 Chrysobalanaceae: *Exellodendron coriaceum* (Benth.) Prance
1874 Myrtaceae: *Myrcia calycampa* Amshoff
1875 Chrysobalanaceae: *Couepia multiflora* Benth.
1876 Thymelaeaceae: *Goodallia guianensis* Benth.
1877 Chrysobalanaceae: *Licania coriacea* Benth.
1878 Melastomataceae: *Miconia aplostachya* (Bonpl.) DC.
1879 Rubiaceae: *Psychotria capitata* Ruiz & Pav. s.l.
1880 Xyridaceae: *Xyris laxifolia* Mart. var. *laxifolia*
1881 Scrophulariaceae: *Conobea aquatica* Aubl.
1882 Onagraceae: *Ludwigia sedoides* (Bonpl.) H. Hara
1883 Menyanthaceae: *Nymphoides indica* (L.) Kuntze
1884 Heliconiaceae: *Heliconia chartacea* Lane ex Barreiros
1885 Asteraceae: *Centratherum punctatum* Cass.
1886 Malpighiaceae: *Tetrapterys discolor* (G. Mey.) DC.
1887 Rubiaceae: *Psychotria bracteocardia* (DC.) Müll. Arg.
1888 Piperaceae: *Piper dilatatum* Rich.
1889 Poaceae: *Lasiacis ligulata* Hitchc. & Chase
1890 Malvaceae: *Pavonia castaneifolia* A. St.-Hil. & Naudin
1891 Costaceae: *Costus scaber* Ruiz & Pav.
1892 Marantaceae: *Maranta gibba* Sm.
1893 Lecythidaceae: *Gustavia augusta* L.
1894 Ulmaceae: *Trema micrantha* (L.) Blume
1895 Malvaceae: *Wissadula excelsior* (Cav.) C. Presl
1896 Rubiaceae: *Psychotria bracteocardia* (DC.) Müll. Arg.
1897 Poaceae: *Olyra longifolia* Kunth
1898 Annonaceae: *Duguetia quitarensis* Benth.
1899 Cyperaceae: *Rhynchospora cephalotes* (L.) Vahl
1900 Lecythidaceae: *Gustavia augusta* L.
1901 Rubiaceae: *Chomelia angustifolia* Benth.
1902 Myrtaceae
1903 Piperaceae: *Piper marginatum* Jacq.
1904 Flacourtiaceae: *Casearia guianensis* (Aubl.) Urb.
1905 Ganodermataceae: *Ganoderma* sp.
1906 Ganodermataceae: *Amauroderma* sp.
1907 Oxalidaceae: *Oxalis barrelieri* L.
1908 Amaranthaceae: *Cyathula prostrata* (L.) Blume
1909 Rubiaceae: *Oldenlandia lancifolia* (Schumach.) DC.
1910 Rubiaceae: *Borreria prostrata* (Aubl.) Miq.
1911 Capparaceae: *Cleome parviflora* Kunth
1912 Malvaceae: *Sida setosa* Mart. ex Colla
1913 Solanaceae: *Solanum leucocarpon* Dunal
1914 Heliconiaceae: *Heliconia chartacea* Lane ex Barreiros
1915 Marantaceae: *Calathea variegata* Linden ex Körn.
1916 Piperaceae: *Piper hostmannianum* (Miq.) C. DC.
1917 Fungi-Basidiomycete
1918 Zingiberaceae: *Renealmia alpinia* (Rottb.) Maas
1919 Euphorbiaceae: *Phyllanthus stipulatus* (Raf.) G.L. Webster
1920 Fabaceae-Mimos.: *Inga vera* Willd. subsp. *affinis* (DC.) T.D. Penn.
1921 Poaceae: *Panicum trichoides* Sw.
1922 Cyperaceae: *Cyperus odoratus* L.
1923 Poaceae: *Eragrostis japonica* (Thunb.) Trin.
1924 Rubiaceae: *Spermacoce* cf. *glabra* Michx.
1925 Thelypteridaceae: *Thelypteris* (*Goniopteris*) sp.
1926 Solanaceae: *Solanum stramoniifolium* Jacq.
1927 Poaceae: *Panicum stoloniferum* Poir.
1928 Violaceae: *Rinorea pubiflora* (Benth.) Sprague & Sandwith
1929 Marantaceae: *Ischnosiphon obliquus* (Rudge) Körn.
1930 Heliconiaceae: *Heliconia spathocircinata* Aristeg.
1931 Heliconiaceae: *Heliconia bihai* (L.) L.
1932 Siparunaceae
1933 Liliaceae: *Hymenocallis tubiflora* Salisb.
1934 Rubiaceae: *Sipanea gleasonii* Steyerm.

1935 Melastomataceae: *Bellucia grossularioides* (L.) Triana
1936 Rubiaceae: *Psychotria acuminata* Benth.
1937 Clusiaceae: *Vismia cayennensis* (Jacq.) Pers.
1938 Melastomataceae: *Miconia alata* (Aubl.) DC.
1939 Boraginaceae: *Cordia schomburgkii* DC.
1940 Solanaceae: *Capsicum frutescens* L.
1941 Myrtaceae: *Myrcia subobliqua* (Benth.) Nied.
1942 Melastomataceae: *Miconia macrothyrsa* Benth.
1943 Poaceae: *Paspalum convexum* Humb. & Bonpl. ex Flüggé
1944 Sterculiaceae: *Waltheria indica* L.
1945 Malvaceae: *Urena lobata* L.
1946 Fabaceae-Papil.: *Macroptilium gracile* (Poepp. ex Benth.) Urb.
1947 Rubiaceae: *Palicourea crocea* (Sw.) Roem. & Schult.
1948 Polygalaceae: *Polygala adenophora* DC.
1949 Liliaceae: *Curculigo scorzonerifolia* (Lam.) Baker
1950 Lauraceae: *Cassytha filiformis* L.
1951 Melastomataceae: *Clidemia hirta* (L.) D. Don
1952 Myrtaceae: *Psidium guineense* Sw.
1953 Dioscoreaceae: *Dioscorea*
1954 Heliconiaceae: *Heliconia hirsuta* L. f.
1955 Convolvulaceae: *Ipomoea squamosa* Choisy
1956 Poaceae: *Panicum parvifolium* Lam.
1957 Solanaceae: *Solanum asperum* Rich.
1958 Dilleniaceae: *Davilla kunthii* A. St.-Hil.
1959 Turneraceae: *Piriqueta cistoides* (L.) Griseb.
1960 Cyperaceae: *Scleria microcarpa* Nees ex Kunth
1961 Cyperaceae: *Scleria splitgerberiana* Henrard ex Uittien
1962 Apocynaceae: *Mesechites trifida* (Jacq.) Müll. Arg.
1963 Bignoniaceae: *Arrabidaea bilabiata* (Sprague) Sandwith
1964 Fabaceae-Caesal.: *Macrolobium acaciifolium* (Benth.) Benth.
1965 Apocynaceae: *Prestonia quinquangularis* (Jacq.) Spreng.
1966 Rubiaceae: *Palicourea croceoides* Ham.
1967 Rubiaceae: *Faramea sessilifolia* (Kunth) DC.
1968 a Melastomataceae: *Miconia aplostachya* (Bonpl.) DC.
1968 b Apocynaceae: *Prestonia coalita* (Vell.) Woodson
1969 Cactaceae: *Epiphyllum phyllanthus* (L.) Haw. var. *phyllanthus*
1970 Rubiaceae: *Duroia fusifera* Hook. f. ex K. Schum.
1971 Fabaceae-Mimos.: *Hydrochorea corymbosa* (Rich.) Barneby & J.W. Grimes
1972 Poaceae: *Panicum pilosum* Sw.
1973 Euphorbiaceae: *Amanoa guianensis* Aubl.
1974 Euphorbiaceae: *Croton trinitatis* Millsp.
1975 Asteraceae: *Trichospira verticillata* (L.) S.F. Blake
1975 a Euphorbiaceae: *Croton trinitatis* Millsp.
1976 Rubiaceae: *Faramea sessilifolia* (Kunth) DC.
1977 Poaceae: *Panicum laxum* Sw.
1978 Cyperaceae: *Fimbristylis miliacea* (L.) Vahl
1979 Annonaceae: *Annona hypoglauca* Mart.
1980 Apocynaceae: *Tabernaemontana siphilitica* (L. f.) Leeuwenb.
1981 Fabaceae-Papil.: *Vigna lasiocarpa* (Mart. ex Benth.) Verdc.
1982 Fabaceae-Papil.: *Centrosema* sp.
1983 Tiliaceae: *Corchorus orinocensis* Kunth
1984 Rubiaceae: *Sipanea*
1985 Burseraceae: *Protium heptaphyllum* (Aubl.) Marchand
1986 Annonaceae: *Xylopia aromatica* (Lam.) Mart.
1987 Fabaceae-Papil.: *Acosmium nitens* (Vogel) Yakovlev
1988 Euphorbiaceae: *Maprounea guianensis* Aubl.
1989 Vochysiaceae: *Vochysia tetraphylla* (G. Mey.) DC.

1990 Solanaceae: *Solanum monachophyllum* Dunal
1991 Sterculiaceae: *Melochia arenosa* Benth.
1992 Polygonaceae: *Symmeria paniculata* Benth.
1993 Quiinaceae
1994 Quiinaceae: *Quiina rhytidopus* Tul.
1995 Ochnaceae: *Ouratea* sp.
1996 Chrysobalanaceae: *Licania apetala* (E. Mey.) Fritsch var. *aperta* (Benth.) Prance
1997 Fabaceae-Caesal.: *Chamaecrista hispidula* (Vahl) H.S. Irwin & Barneby
1998 Fungi-Basidiomycete
1999 Fabaceae-Caesal.: *Senna latifolia* (G. Mey.) H.S. Irwin & Barneby
2000 Fabaceae-Papil.: *Desmodium* aff. *intortum* (Mill.) Urb.
2001 Myrtaceae: *Eugenia punicifolia* (Kunth) DC.
2002 Fabaceae-Caesal.: *Senna undulata* (Benth.) H.S. Irwin & Barneby
2003 Cyperaceae: *Bulbostylis tenuifolia* (Rudge) J.F. Macbr.
2003 a Cyperaceae: *Bulbostylis truncata* (Nees) M.T. Strong
2004 Cyperaceae: *Cyperus laxus* Lam. s.l.
2005 Piperaceae: *Piper* sp.
2006 Cyperaceae: *Rhynchospora cephalotes* (L.) Vahl
2007 Fabaceae-Papil.: *Stylosanthes guianensis* (Aubl.) Sw. var. *gracilis* (Kunth) Vogel
2008 Myrtaceae: *Psidium guineense* Sw.
2009 Fabaceae-Caesal.: *Chamaecrista nictitans* (L.) Moench var. *patellaria* (Collad.) H.S. Irwin & Barneby
2010 Asteraceae: *Wulffia baccata* (L.) Kuntze
2010 a Annonaceae: *Rollinia exsucca* (DC. ex Dunal) A. DC.
2011 Fabaceae-Papil.: *Indigofera suffruticosa* Mill.
2012 Fabaceae-Papil.: *Vigna lasiocarpa* (Mart. ex Benth.) Verdc.
2013 Flacourtiaceae: *Casearia arborea* (Rich.) Urb.
2014 Lauraceae: *Licaria* sp.
2015 Orchidaceae
2016 Araceae: *Philodendron muricatum* Willd. ex Schott
2017 Rubiaceae: *Perama galioides* (Kunth) Poir.
2018 Poaceae: *Panicum micranthum* Kunth
2019 Polygalaceae: *Polygala timoutou* Aubl.
2020 Lythraceae
2021 Scrophulariaceae: *Conobea aquatica* Aubl.
2022 Myrtaceae: *Myrcia guianensis* (Aubl.) DC.
2023 Scrophulariaceae: *Benjaminia reflexa* (Benth.) D'Arcy
2024 Bromeliaceae: *Ananas parguazensis* L.A. Camargo & L.B. Sm.
2025 Bignoniaceae: *Jacaranda obtusifolia* Bonpl. ssp. *rhombifolia* (G. Mey.) A.H. Gentry
2026 Annonaceae: *Guatteria schomburgkiana* Mart.
2027 Adiantaceae: *Pityrogramma calomelanos* (L.) Link
2028 Cyperaceae: *Cyperus haspan* L.
2029 Chrysobalanaceae: *Hirtella paniculata* Sw.
2030 Lamiaceae: *Ocimum campechianum* Mill.
2031 Melastomataceae: *Clidemia sericea* D. Don
2032 Anacardiaceae: *Tapirira guianensis* Aubl.
2033 Melastomataceae: *Miconia ciliata* (Rich.) DC.
2034 Fabaceae-Papil.: *Ormosia fastigiata* Tul.
2035 Poaceae: *Panicum rudgei* Roem. & Schult.
2036 Eriocaulaceae: *Tonina fluviatilis* Aubl.
2037 Euphorbiaceae
2038 Verbenaceae: *Vitex capitata* Vahl
2039 Fabaceae-Papil.: *Vigna luteola* (Jacq.) Benth.
2040 Asteraceae: *Calea caleoides* (DC.) H. Rob.
2041 Convolvulaceae: *Merremia aturensis* (Kunth) Hallier f.
2042 Iridaceae
2043 Acanthaceae: *Ruellia geminiflora* Kunth var. *angustifolia* (Nees) Griseb.
2044 Convolvulaceae: *Evolvulus*
2045 Gnetaceae: *Gnetum* sp.
2046 Iridaceae: *Sisyrinchium vaginatum* Spreng.

2047 Piperaceae: *Piper trichoneuron* (Miq.) C. DC.
2048 Rubiaceae: *Morinda calycina* (Benth.) Steyerm.
2049 Dilleniaceae: *Doliocarpus brevipedicellatus* Garcke ssp. *brevipedicellatus*
2050 Lacistemataceae: *Lacistema* sp.
2051 Gentianaceae: *Tetrapollinia caerulescens* (Aubl.) Maguire & B.M. Boom
2052 Polygalaceae: *Polygala subtilis* Kunth
2053 Scrophulariaceae
2054 Verbenaceae: *Stachytarpheta cayennensis* (Rich.) Vahl
2055 Solanaceae: *Solanum sect.* Erythrotrichum
2056 Apocynaceae: *Himatanthus*
2057 Euphorbiaceae: *Mabea taquari* Aubl.
2058 Bryophyte
2059 Fabaceae-Mimos.: *Abarema jupunba* (Willd.) Britton & Killip var. *trapezifolia* (Vahl) Barneby & J.W. Grimes
2060 Convolvulaceae: *Merremia macrocalyx* (Ruiz & Pav.) O'Donell
2061 Fabaceae-Caesal.: *Eperua falcata* Aubl.
2062 Clusiaceae: *Vismia macrophylla* Kunth
2063 Clusiaceae
2064 Fabaceae-Caesal.: *Tachigali*
2065 Convolvulaceae: *Maripa scandens* Aubl.
2066 Araceae: *Philodendron camposportoanum* G.M. Barroso
2067 Convolvulaceae: *Lysiostyles scandens* Benth.
2068 Chrysobalanaceae: *Licania densiflora* Kleinhoonte
2069 Cecropiaceae: *Pourouma*
2070 Fabaceae-Mimos.: *Balizia pedicellaris* (DC.) Barneby & J.W. Grimes
2071 Combretaceae: *Combretum laxum* Jacq.
2072 Annonaceae: *Xylopia nitida* Dunal
2073 Flacourtiaceae: *Casearia commersoniana* Cambess.
2074 Lauraceae: *Aniba* cf. *citrifolia* (Nees) Mez
2075 Menispermaceae
2076 Fabaceae-Papil.: *Lonchocarpus*
2077 Rubiaceae: *Rudgea*
2078 Convolvulaceae: *Lysiostyles scandens* Benth.
2079 Dilleniaceae: *Doliocarpus guianensis* (Aubl.) Gilg
2080 Fabaceae-Mimos.: *Inga alata* Benoist
2081 Polygalaceae: *Moutabea guianensis* Aubl. s.l.
2082 Araceae: *Syngonium podophyllum* Schott
2083 Loranthaceae: *Phthirusa stelis* (L.) Kuijt
2084 Rubiaceae: *Uncaria guianensis* (Aubl.) J.F. Gmel.
2085 Mendonciaceae: *Mendoncia hoffmannseggiana* Nees
2086 Lauraceae: *Aniba* cf. *citrifolia* (Nees) Mez
2087 Celastraceae: *Goupia glabra* Aubl.
2088 Olacaceae: *Heisteria densifrons* Engl.
2089 Moraceae: *Ficus trigona* L. f.
2090 Polypodiaceae: *Microgramma tecta* (Kaulf.) Alston
2091 Annonaceae: *Xylopia nitida* Dunal
2092 Polypodiaceae: *Polypodium polypodioides* (L.) Watt var. *burchellii* (Baker) Weath.
2093 Vittariaceae: *Ananthacorus angustifolius* (Sw.) Underw. & Maxon
2094 Orchidaceae: *Lockhartia imbricata* (Lam.) Hoehne
2095 Orchidaceae: *Maxillaria uncata* Lindl.
2096 Piperaceae: *Peperomia quadrangularis* (J.V. Thomps.) A. Dietr.
2097 Polypodiaceae: *Pecluma plumula* (Humb. & Bonpl. ex Willd.) M.G. Price
2098 Rubiaceae: *Randia armata* (Sw.) DC.
2099 Clusiaceae: *Vismia macrophylla* Kunth
2100 Indet.
2101 Malpighiaceae: *Tetrapterys crispa* A. Juss.
2102 Thelypteridaceae: *Thelypteris poiteana* (Bory) Proctor
2103 Flacourtiaceae: *Neosprucea* sp.
2104 Asteraceae: *Mikania gleasonii* B.L. Rob.
2105 Poaceae: *Parodiolyra micrantha* (Kunth) Davidse & Zuloaga
2106 Annonaceae: *Fusaea longifolia* (Aubl.) Saff.
2107 Bignoniaceae
2108 Connaraceae
2109 Marantaceae

2110 Annonaceae: *Anaxagorea dolichocarpa* Sprague & Sandwith
2111 Lauraceae: *Cassytha filiformis* L.
2112 Amaranthaceae: *Alternanthera brasiliana* (L.) Kuntze
2113 Flacourtiaceae: *Casearia spinescens* (Sw.) Griseb.
2114 Onagraceae
2115 Scrophulariaceae
2116 Sterculiaceae: *Guazuma ulmifolia* Lam.
2117 Bignoniaceae: *Memora heterophylla* (Kraenzl.) Sandwith
2118 Ochnaceae: *Ouratea superba* Engl.
2119 Lecythidaceae: *Gustavia augusta* L.
2120 Bixaceae: *Bixa orellana* L.
2121 Malpighiaceae: *Byrsonima verbascifolia* (L.) DC.
2122 Meliaceae: *Trichilia*
2123 Annonaceae: *Annona* sp.
2124 Malpighiaceae: *Spachea elegans* (G. Mey.) A. Juss.
2125 Tiliaceae: *Triumfetta semitriloba* Jacq.
2126 Rubiaceae: *Genipa americana* L.
2127 Boraginaceae: *Cordia fallax* I.M. Johnst.
2128 Fabaceae-Papil.: *Centrosema*
2129 Convolvulaceae: *Merremia umbellata* (L.) Hallier f.
2130 Convolvulaceae: *Jacquemontia guyanensis* (Aubl.) Meisn.
2131 Bignoniaceae: *Cydista aequinoctialis* (L.) Miers
2132 Sterculiaceae: *Helicteres*
2133 Fabaceae-Caesal.: *Bauhinia* sp.
2134 Scrophulariaceae: *Scoparia dulcis* L.
2135 Combretaceae: *Combretum laxum* Jacq.
2136 Menispermaceae: *Cissampelos pareira* L.
2137 Cucurbitaceae: *Cayaponia racemosa* (Mill.) Cogn.
2138 Bixaceae: *Cochlospermum*
2139 Lygodiaceae: *Lygodium venustum* Sw.
2140 Fabaceae-Papil.: *Machaerium inundatum* (Mart. ex Benth.) Ducke
2141 Fabaceae-Papil.: *Desmodium*
2142 Fabaceae-Papil.: *Galactia striata* (Jacq.) Urb.
2143 Combretaceae: *Combretum fruticosum* (Loefl.) Stuntz
2144 Fabaceae-Mimos.: *Zygia cataractae* (Kunth) L. Rico
2145 Fabaceae-Papil.: *Swartzia* cf. *latifolia* Benth. var. *sylvestris* R.S. Cowan
2146 Malpighiaceae: *Banisteriopsis cinerascens* (Benth.) B. Gates
2147 NO RECORD
2148 Fabaceae-Caesal.: *Cassia moschata* Kunth
2149 Polyporaceae: *Pycnoporus* cf. *sanguineus* (L.) Murrill
2150 Moraceae: *Ficus nymphaeifolia* Mill.
2151 Bignoniaceae: *Tabebuia ochracea* (Cham.) Standl. ssp. *heterotricha* (DC.) A.H. Gentry
2152 Rubiaceae: *Rosenbergiodendron densiflorum* (K. Schum.) Fagerl.
2153 Poaceae: *Leptocoryphium lanatum* (Kunth) Nees
2154 Myrtaceae: *Psidium salutare* (Kunth) O. Berg
2155 Fabaceae-Caesal.: *Chamaecrista hispidula* (Vahl) H.S. Irwin & Barneby
2156 Erythroxylaceae: *Erythroxylum suberosum* A. St.-Hil.
2157 Menispermaceae: *Cissampelos ovalifolia* DC.
2158 Sterculiaceae: *Melochia spicata* (L.) Fryxell
2159 Malpighiaceae: *Spachea elegans* (G. Mey.) A. Juss.
2160 Fabaceae-Mimos.: *Acacia polyphylla* DC.
2161 Sterculiaceae: *Byttneria divaricata* Benth.
2162 Apocynaceae: *Tabernaemontana siphilitica* (L. f.) Leeuwenb.
2163 Turneraceae
2164 Apocynaceae: *Himatanthus*
2165 Myrtaceae: *Psidium guineense* Sw.
2166 Malpighiaceae: *Byrsonima crassifolia* (L.) Kunth
2167 Polygonaceae: *Symmeria paniculata* Benth.
2168 Phytolaccaceae: *Petiveria alliacea* L.
2169 Bignoniaceae: *Arrabidaea corallina* (Jacq.) Sandwith
2170 Convolvulaceae: *Merremia ? ternifoliola* Pittier
2171 Fabaceae-Papil.: *Platymiscium* sp.
2172 Sterculiaceae: *Guazuma ulmifolia* Lam.
2173 Rubiaceae: *Randia* aff. *armata* (Sw.) DC.

2174 Solanaceae: *Capsicum frutescens* L.
2175 Sapotaceae
2176 Fabaceae-Caesal.: *Chamaecrista hispidula* (Vahl) H.S. Irwin & Barneby
2177 Malvaceae: *Cienfuegosia affinis* (Kunth) Hochr.
2178 Fabaceae-Papil.: *Coursetia ferruginea* (Kunth) Lavin
2179 Apocynaceae: *Prestonia tomentosa* R. Br.
2180 Boraginaceae: *Tournefortia*
2181 Fabaceae-Papil.: *Canavalia*
2182 Boraginaceae: *Heliotropium*
2183 Viscaceae: *Phoradendron perrottetii* (DC.) Eichler
2184 Bignoniaceae: *Pleonotoma clematis* (Kunth) Miers
2185 Verbenaceae: *Vitex schomburgkiana* Schauer
2186 Combretaceae: *Combretum fruticosum* (Loefl.) Stuntz
2187 Myrtaceae: *Psidium salutare* (Kunth) O. Berg
2188 Asteraceae: *Conyza bonariensis* (L.) Cronquist
2189 Fabaceae-Caesal.: *Martiodendron excelsum* (Benth.) Gleason
2190 Annonaceae: *Annona* sp.
2191 Loranthaceae: *Phthirusa stelis* (L.) Kuijt
2192 Sapotaceae: *Chrysophyllum*
2193 Rubiaceae: *Randia* aff. *armata* (Sw.) DC.
2194 Viscaceae: *Phoradendron mucronatum* (DC.) Krug & Urb.
2195 Convolvulaceae: *Ipomoea mauritiana* Jacq.
2196 Theophrastaceae: *Clavija*
2197 Bignoniaceae: *Cydista aequinoctialis* (L.) Miers var. *aquinoctialis*
2198 Bignoniaceae: *Melloa quadrivalvis* (Jacq.) A.H. Gentry
2199 Asteraceae: *Vernonanthura brasiliana* (L.) H. Rob.
2200 Erythroxylaceae: *Erythroxylum havanense* Jacq.
2201 Convolvulaceae: *Ipomoea piurensis* O'Donell
2202 Malpighiaceae: *Tetrapterys discolor* (G. Mey.) DC.
2203 Nyctaginaceae: *Neea* sp.
2204 Annonaceae: *Annona* sp.
2205 Verbenaceae: *Vitex compressa* Turcz.
2206 Flacourtiaceae: *Hecatostemon completus* (Jacq.) Sleumer
2207 Boraginaceae: *Cordia toqueve* Aubl.
2208 Malpighiaceae: *Byrsonima crassifolia* (L.) Kunth
2209 Fabaceae
2210 Solanaceae
2211 Fungi
2212 Fungi
2213 Bryophyte
2214 Fungi
2215 Polyporaceae: *Lentinus crinitus* Fr.
2216 Polyporaceae: *Hexagonium* sp.
2217 Auriculariaceae: *Auricularia* sp.
2218 NO RECORD
2219 NO RECORD
2220 NO RECORD
2221 NO RECORD
2222 Fabaceae-Papil.: *Calopogonium velutinum* (Benth.) Amshoff
2223 Melastomataceae: *Miconia argyrophylla* DC.
2224 Melastomataceae: *Miconia gratissima* Benth. ex Triana
2225 Piperaceae: *Piper dilatatum* Rich.
2226 Piperaceae: *Piper hostmannianum* (Miq.) C. DC.
2227 Piperaceae: *Piper foveolatum* Kunth ex C. DC.
2228 Convolvulaceae: *Maripa scandens* Aubl.
2229 Poaceae: *Olyra latifolia* L.
2230 Melastomataceae: *Aciotis indecora* (Bonpl.) Triana
2231 Onagraceae: *Ludwigia octovalvis* (Jacq.) P.H. Raven
2232 Burseraceae: *Protium aracouchini* (Aubl.) Marchand
2233 Fabaceae
2234 Solanaceae: *Markea coccinea* Rich.
2235 Rubiaceae: *Psychotria apoda* Steyerm.
2236 Chrysobalanaceae: *Licania hypoleuca* Benth.
2237 Chrysobalanaceae: *Hirtella racemosa* Lam. var. *hexandra* (Willd. ex Roem. & Schult.) Prance
2238 Mendonciaceae: *Mendoncia squamuligera* Nees
2239 Smilacaceae: *Smilax syphilitica* Humb. & Bonpl. ex Willd.

2240 Poaceae: *Panicum pilosum* Sw.
2241 Rubiaceae: *Palicourea guianensis* Aubl.
2242 Boraginaceae: *Cordia nodosa* Lam.
2243 Piperaceae: *Piper bartlingianum* (Miq.) C. DC.
2244 Sapindaceae: *Matayba peruviana* Radlk.
2245 Melastomataceae: *Miconia myriantha* Benth.
2246 Gesneriaceae: *Codonanthe crassifolia* (H. Focke) C.V. Morton
2247 Fungi
2248 Polyporaceae: *Polyporus* sp.
2249 Fungi
2250 Fungi
2251 Bryophyte
2252 Fungi
2253 Hymenophyllaceae: *Trichomanes vittaria* DC. ex Poir.
2254 Araceae: *Philodendron linnaei* Kunth
2255 Passifloraceae: *Passiflora glandulosa* Cav.
2256 Bryophyte
2257 Gentianaceae: *Chelonanthus purpurascens* (Aubl.) Struwe, S. Nilsson & V.A. Albert
2258 Icacinaceae: *Discophora*
2259 Apocynaceae: *Tabernaemontana undulata* Vahl
2260 Annonaceae: *Xylopia benthamii* R.E. Fr.
2261 Rubiaceae: *Psychotria polycephala* Benth.
2262 Annonaceae: *Anaxagorea dolichocarpa* Sprague & Sandwith
2263 Dichapetalaceae: *Tapura guianensis* Aubl.
2264 Euphorbiaceae: *Dalechampia parvibracteata* Lanj.
2265 Hippocrateaceae: *Cheiloclinium cognatum* (Miers) A.C. Sm.
2266 Myrtaceae: *Calyptranthes fasciculata* O. Berg
2267 Araceae: *Heteropsis flexuosa* (Kunth) G.S. Bunting
2268 Ganodermataceae: *Ganoderma* sp.
2269 Apocynaceae: *Tabernaemontana undulata* Vahl
2270 Rubiaceae: *Sabicea oblongifolia* (Miq.) Steyerm.
2271 Passifloraceae: *Passiflora*
2272 Dilleniaceae: *Davilla kunthii* A. St.-Hil.
2273 Solanaceae: *Solanum oocarpum* Sendtn.
2274 Rubiaceae: *Duroia* cf. *eriopila* L. f.
2275 Fabaceae-Papil.: *Swartzia oblanceolata* Sandwith
2276 Flacourtiaceae: *Casearia combaymensis* Tul.
2277 Convolvulaceae: *Dicranostyles* cf. *ampla* Ducke
2278 Fabaceae
2279 Fabaceae-Mimos.: *Inga laurina* (Sw.) Willd.
2280 Costaceae: *Costus arabicus* L.
2281 Dilleniaceae: *Tetracera costata* Mart. ex Eichler
2282 Vittariaceae: *Antrophyum guayanense* Hieron.
2283 Dennstaedtiaceae: *Lindsaea lancea* (L.) Bedd. var. *lancea*
2284 a Annonaceae: *Annona hypoglauca* Mart.
2284 b Viscaceae: *Phoradendron crassifolium* (Pohl ex DC.) Eichler
2285 Apocynaceae: *Prestonia quinquangularis* (Jacq.) Spreng.
2286 Fabaceae-Caesal.: *Macrolobium acaciifolium* (Benth.) Benth.
2287 Bixaceae: *Bixa orellana* L.
2288 Lecythidaceae: *Gustavia augusta* L.
2289 Apocynaceae: *Odontadenia macrantha* (Roem. & Schult.) Markgr.
2290 Bignoniaceae: *Adenocalymna inundatum* Mart. ex DC. var. *surinamense* Bureau & K. Schum.
2291 Bignoniaceae: *Memora heterophylla* (Kraenzl.) Sandwith
2292 Ochnaceae: *Ouratea* sp.
2293 Asclepiadaceae
2294 Rubiaceae: *Bothriospora corymbosa* (Benth.) Hook. f.
2295 Passifloraceae: *Passiflora capparidifolia* Killip
2296 Turneraceae: *Turnera*
2297 Lauraceae: *Nectandra amazonum* Nees
2298 Bignoniaceae: *Memora schomburgkii* (DC.) Miers
2299 Passifloraceae: *Passiflora costata* Mast.
2300 Asclepiadaceae

2301 Fabaceae-Mimos.: *Inga disticha* Benth.
2302 Combretaceae: *Combretum rotundifolium* Rich.
2303 Malpighiaceae: *Hiraea faginea* (Sw.) Nied.
2304 Polygonaceae: *Symmeria paniculata* Benth.
2305 Fabaceae-Caesal.: *Elizabetha coccinea* M.R. Schomb. ex Benth. var. *oxyphylla* (Harms) R.S. Cowan
2306 Fabaceae-Caesal.: *Cynometra bauhiniifolia* Benth.
2307 Malpighiaceae: *Tetrapterys discolor* (G. Mey.) DC.
2308 Poaceae: *Bambusa vulgaris* Schrad. ex J.C. Wendl.
2309 Malpighiaceae: *Hiraea faginea* (Sw.) Nied.
2310 Euphorbiaceae: *Alchornea* sp.
2311 Chrysobalanaceae
2312 Boraginaceae: *Cordia tetrandra* Aubl.
2313 Myrtaceae: *Psidium acutangulum* DC.
2314 Chrysobalanaceae: *Licania leptostachya* Benth.
2315 Flacourtiaceae: *Homalium guianense* (Aubl.) Oken
2316 Rubiaceae: *Alibertia edulis* (Rich.) A. Rich. ex DC.
2317 Myrsinaceae: *Ardisia* ?
2318 Polypodiaceae: *Pecluma plumula* (Humb. & Bonpl. ex Willd.) M.G. Price
2319 Polypodiaceae: *Polypodium polypodioides* (L.) Watt var. *burchellii* (Baker) Weath.
2320 Polypodiaceae: *Pleopeltis percussa* (Cav.) Hook. & Grev.
2321 Vittariaceae: *Ananthacorus angustifolius* (Sw.) Underw. & Maxon
2322 Orchidaceae: *Octomeria exigua* C. Schweinf.
2323 Celastraceae: *Goupia glabra* Aubl.
2324 Gnetaceae: *Gnetum urens* (Aubl.) Blume
2325 Humiriaceae: *Humiria balsamifera* Aubl. f. *attenuata* Cuatrec.
2326 Humiriaceae
2327 Icacinaceae: *Pleurisanthes* cf. *artocarpi* Baill.
2328 Convolvulaceae: *Maripa scandens* Aubl.
2329 Lauraceae: *Licaria cannella* (Meisn.) Kosterm.
2330 Chrysobalanaceae: *Licania leptostachya* Benth.
2331 Fabaceae-Papil.: *Pterocarpus rohrii* Vahl
2332 Fabaceae-Caesal.: *Cynometra* cf. *marginata* Benth.
2333 Fabaceae-Mimos.: *Abarema jupunba* (Willd.) Britton & Killip var. *trapezifolia* (Vahl) Barneby & J.W. Grimes
2334 Chrysobalanaceae: *Licania hypoleuca* Benth.
2335 Passifloraceae: *Passiflora capparidifolia* Killip
2336 Viscaceae: *Phoradendron crassifolium* (Pohl ex DC.) Eichler
2337 Fabaceae-Mimos.: *Abarema jupunba* (Willd.) Britton & Killip var. *trapezifolia* (Vahl) Barneby & J.W. Grimes
2338 Dichapetalaceae: *Dichapetalum pedunculatum* (DC.) Baill.
2339 Sapotaceae
2340 Ebenaceae: *Diospyros* ?
2341 Dilleniaceae: *Doliocarpus guianensis* (Aubl.) Gilg
2342 Loganiaceae: *Strychnos*
2343 a Lauraceae: *Ocotea guianensis* Aubl.
2343 b Connaraceae: *Connarus* cf. *coriaceus* G. Schellenb.
2344 Quiinaceae: *Quiina obovata* Tul.
2345 Rubiaceae: *Psychotria barbiflora* DC.
2346 Apocynaceae: *Tabernaemontana undulata* Vahl
2347 Melastomataceae: *Miconia ciliata* (Rich.) DC.
2348 Violaceae: *Corynostylis arborea* (L.) S.F. Blake
2349 Trigoniaceae: *Trigonia hypoleuca* Griseb.
2350 Fabaceae-Papil.: *Centrosema* sp.
2351 Violaceae: *Corynostylis arborea* (L.) S.F. Blake
2352 Violaceae: *Corynostylis arborea* (L.) S.F. Blake
2353 Ebenaceae: *Diospyros*
2354 Smilacaceae: *Smilax* sp.
2355 Rubiaceae: *Bothriospora corymbosa* (Benth.) Hook. f.
2356 Vitaceae: *Cissus verticillata* (L.) Nicolson & C.E. Jarvis
2357 Poaceae: *Panicum pilosum* Sw.

2358 Violaceae: *Rinorea riana* (DC.) Kuntze
2359 Simaroubaceae: *Quassia amara* L.
2360 Rubiaceae: *Psychotria racemosa* Rich.
2361 Heliconiaceae: *Heliconia acuminata* Rich.
2362 Ulmaceae: *Trema micrantha* (L.) Blume
2363 Capparaceae: *Cleome latifolia* Vahl ex DC.
2364 Lichen
2365 Lichen
2366 Lichen
2367 Bryophyte
2368 Bryophyte
2369 Fabaceae-Caesal.: *Dialium guianense* (Aubl.) Sandwith
2370 Annonaceae: *Annona hypoglauca* Mart.
2371 Theophrastaceae: *Clavija lancifolia* Desf.
2372 Bromeliaceae: *Tillandsia tenuifolia* L.
2373 Adiantaceae: *Pityrogramma calomelanos* (L.) Link
2374 Fabaceae-Caesal.: *Elizabetha coccinea* M.R. Schomb. ex Benth. var. *coccinea*
2375 Malpighiaceae: *Heteropterys macradena* (DC.) W.R. Anderson
2376 Rubiaceae: *Isertia parviflora* Vahl
2377 Sapindaceae: *Paullinia pinnata* L.
2378 Asteraceae: *Mikania congesta* DC.
2379 Flacourtiaceae: *Casearia zizyphoides* Kunth
2380 Apocynaceae: *Mesechites trifida* (Jacq.) Müll. Arg.
2381 Rubiaceae: *Chomelia angustifolia* Benth.
2382 Asclepiadaceae
2383 Apocynaceae: *Tabernaemontana siphilitica* (L. f.) Leeuwenb.
2384 a Fabaceae-Papil.: *Machaerium ferox* (Mart. ex Benth.) Ducke
2384 b Begoniaceae: *Begonia semiovata* Liebm.
2385 Cucurbitaceae: *Cayaponia* cf. *cruegeri* (Naudin) Cogn.
2386 Fabaceae-Caesal.: *Mora excelsa* Benth.
2387 Arecaceae: *Desmoncus*
2388 Myrtaceae: *Myrcia guianensis* (Aubl.) DC.
2389 Asteraceae: *Conyza bonariensis* (L.) Cronquist
2390 Asteraceae: *Eclipta prostrata* (L.) L.
2391 Asteraceae: *Emilia sonchifolia* (L.) DC. ex Wight
2392 Scrophulariaceae: *Scoparia dulcis* L.
2393 Rutaceae: *Ertela trifolia* (L.) Kuntze
2394 Boraginaceae: *Heliotropium indicum* L.
2395 Fabaceae-Caesal.: *Senna chrysocarpa* (Desv.) H.S. Irwin & Barneby
2396 Amaranthaceae: *Amaranthus viridis* L.
2397 Portulacaceae: *Portulaca oleracea* L.
2398 a Rubiaceae: *Diodia ocymifolia* (Willd. ex Roem. & Schult.) Bremek.
2398 b Rubiaceae: *Sipanea pratensis* Aubl.
2399 Cyperaceae: *Cyperus laxus* Lam. s.l.
2400 Haemodoraceae: *Xiphidium caeruleum* Aubl.
2401 Commelinaceae: *Dichorisandra hexandra* (Aubl.) Standl.
2402 Poaceae: *Panicum stoloniferum* Poir.
2403 Rubiaceae: *Sipanea pratensis* Aubl.
2404 Fabaceae-Papil.: *Dioclea guianensis* Benth.
2405 Malpighiaceae: *Heteropterys macradena* (DC.) W.R. Anderson
2406 Poaceae: *Pariana radiciflora* Sagot ex Döll
2407 Apocynaceae: *Tabernaemontana heterophylla* Vahl
2408 Myrtaceae: *Eugenia lambertiana* DC.
2409 Hippocrateaceae: *Peritassa dulcis* (Benth.) Miers
2410 Sapindaceae: *Cupania hirsuta* Radlk.
2411 Sapindaceae: *Paullinia* cf. *verrucosa* Radlk.
2412 Araceae: *Xanthosoma* cf. *striolatum* Mart. ex Schott
2413 Rubiaceae: *Morinda calycina* (Benth.) Steyerm.
2414 Bromeliaceae: *Ananas ananassoides* (Baker) L.B. Sm.
2415 Fabaceae-Papil.: *Calopogonium velutinum* (Benth.) Amshoff
2416 Poaceae: *Panicum dichotomiflorum* Michx.
2417 Cyperaceae: *Cyperus luzulae* (L.) Rottb. ex Retz.
2418 Solanaceae: *Cyphomandra hartwegii* (Miers) Walp. ssp. *hartwegii*
2419 Vitaceae: *Cissus verticillata* (L.) Nicolson & C.E. Jarvis
2420 Vitaceae: *Cissus verticillata* (L.) Nicolson & C.E. Jarvis

2421 Poaceae: *Digitaria horizontalis* Willd.
2422 Poaceae: *Echinochloa colona* (L.) Link
2423 Poaceae: *Eleusine indica* (L.) Gaertn.
2424 Poaceae: *Lasiacis ligulata* Hitchc. & Chase
2425 Melastomataceae: *Miconia mirabilis* (Aubl.) L.O. Williams
2425 a Marantaceae: *Maranta rupicola* L. Andersson
2426 Rhamnaceae: *Gouania colurnifolia* Reissek
2427 Solanaceae: *Solanum rugosum* Dunal
2428 Boraginaceae: *Tournefortia* sp.
2429 Bombacaceae: *Pachira insignis* (Sw.) Sw. ex Savigny
2430 Ulmaceae: *Trema micrantha* (L.) Blume
2431 Euphorbiaceae: *Dalechampia magnoliifolia* Müll. Arg.
2432 Rubiaceae
2433 Piperaceae: *Piper hostmannianum* (Miq.) C. DC.
2434 Piperaceae: *Piper dilatatum* Rich.
2435 Cucurbitaceae
2436 Euphorbiaceae: *Dalechampia affinis* Müll. Arg.
2437 Scrophulariaceae: *Lindernia crustacea* (L.) F. Muell.
2438 Asteraceae: *Cyanthillium cinereum* (L.) H. Rob.
2439 Solanaceae: *Schwenckia americana* L.
2440 Annonaceae: *Duguetia neglecta* Sandwith
2441 Lauraceae
2442 Arecaceae: *Desmoncus*
2443 Eriocaulaceae: *Paepalanthus bifidus* (Schrad.) Kunth
2444 Sapindaceae
2445 Araceae: *Philodendron linnaei* Kunth
2446 Rubiaceae
2447 Marantaceae: *Ischnosiphon arouma* (Aubl.) Körn.
2448 Chrysobalanaceae
2449 Chrysobalanaceae: *Hirtella racemosa* Lam. var. *racemosa*
2450 Rubiaceae: *Ixora graciliflora* Benth.
2451 Fabaceae-Caesal.: *Eperua falcata* Aubl.
2452 Dilleniaceae: *Tetracera asperula* Miq.
2453 Commelinaceae: *Commelina rufipes* Seub. var. *glabrata* (D.R. Hunt) Faden & D.R. Hunt
2454 Costaceae: *Costus spiralis* (Jacq.) Roscoe var. *villosus* Maas
2455 Cecropiaceae: *Cecropia latiloba* Miq.
2456 Flacourtiaceae: *Casearia mariquitensis* Kunth
2457 Sterculiaceae
2458 Phytolaccaceae: *Seguieria macrophylla* Benth.
2459 Melastomataceae: *Miconia longifolia* (Aubl.) DC.
2460 Fabaceae-Mimos.: *Inga vera* Willd. subsp. *affinis* (DC.) T.D. Penn.
2461 Dilleniaceae: *Doliocarpus dentatus* (Aubl.) Standl. ssp. *dentatus*
2462 Sapotaceae: *Pouteria cuspidata* (A. DC.) Baehni
2463 Chrysobalanaceae: *Hirtella paniculata* Sw.
2464 Lycopodiaceae: *Lycopodiella cernua* (L.) Pic. Serm.
2465 Gleicheniaceae: *Dicranopteris pectinata* (Willd.) Underw.
2466 Fabaceae-Caesal.: *Campsiandra comosa* Benth. var. *comosa*
2467 Melastomataceae: *Clidemia bullosa* DC.
2468 Costaceae: *Costus scaber* Ruiz & Pav.
2469 Rubiaceae: *Uncaria guianensis* (Aubl.) J.F. Gmel.
2470 Rubiaceae: *Psychotria bahiensis* DC.
2471 Araceae: *Montrichardia arborescens* (L.) Schott
2472 Poaceae: *Panicum stoloniferum* Poir.
2473 Fabaceae-Caesal.: *Campsiandra comosa* Benth. var. *comosa*
2474 a Adiantaceae: *Adiantum latifolium* Lam.
2474 b Solanaceae: *Solanum subinerme* Jacq.
2475 Poaceae: *Panicum stoloniferum* Poir.
2476 Poaceae: *Panicum stoloniferum* Poir.
2477 Sapotaceae
2478 Bryophyte
2479 Lichen
2480 Fabaceae-Papil.: *Andira surinamensis* (Bondt) Splitg. ex Amshoff
2481 Malvaceae: *Taliparitti tiliaceum* (L.) Fryxell var. *pernambucense* (Arruda) Fryxell
2482 Cyperaceae: *Bulbostylis conifera* (Kunth) C.B. Clarke
2483 Rubiaceae: *Borreria hispida* Spruce ex K. Schum.

2484 Rubiaceae: *Diodia*
2485 Fabaceae-Papil.: *Galactia jussiaeana* Kunth
2486 Verbenaceae: *Amasonia campestris* (Aubl.) Moldenke
2487 Malpighiaceae: *Byrsonima crassifolia* (L.) Kunth
2488 Gentianaceae: *Coutoubea spicata* Aubl.
2489 Flacourtiaceae: *Casearia zizyphoides* Kunth
2490 Polygalaceae: *Polygala longicaulis* Kunth
2491 Asteraceae: *Wulffia baccata* (L.) Kuntze
2492 Melastomataceae: *Tibouchina aspera* Aubl. var. *asperrima* Cogn.
2493 Heliconiaceae: *Heliconia psittacorum* L. f.
2494 Fabaceae-Papil.: *Centrosema brasilianum* (L.) Benth.
2495 Rubiaceae: *Borreria latifolia* (Aubl.) K. Schum.
2496 Apocynaceae: *Catharanthus roseus* (L.) G. Don
2497 Lamiaceae: *Marsypianthes chamaedrys* (Vahl) Kuntze
2498 Cyperaceae: *Rhynchospora subplumosa* C.B. Clarke
2499 Cyperaceae: *Scleria bracteata* Cav.
2500 Annonaceae: *Annona sericea* Dunal
2501 Annonaceae: *Guatteria* sp.
2502 Sapindaceae: *Serjania paucidentata* DC.
2503 Flacourtiaceae: *Casearia sylvestris* Sw.
2504 Melastomataceae: *Miconia rubiginosa* (Bonpl.) DC.
2505 Rubiaceae: *Palicourea rigida* Kunth
2506 Dilleniaceae: *Curatella americana* L.
2507 Rubiaceae: *Pagamea guianensis* Aubl.
2508 Dilleniaceae: *Davilla kunthii* A. St.-Hil.
2509 Meliaceae
2510 Asteraceae: *Ichthyothere terminalis* (Spreng.) S.F. Blake
2511 Cyperaceae: *Rhynchospora nervosa* (Vahl) Boeck.
2512 Poaceae: *Sporobolus cubensis* Hitchc.
2513 Fabaceae-Papil.: *Ormosia coccinea* (Aubl.) Jacks.
2514 Cyperaceae: *Bulbostylis paradoxa* (Spreng.) Lindm.
2515 Asteraceae: *Ayapana amygdalina* (Lam.) R.M. King & H. Rob.
2516 Poaceae: *Axonopus purpusii* (Mez) Chase
2517 Fabaceae-Papil.: *Eriosema*
2518 Lauraceae: *Cassytha filiformis* L.
2519 Cyperaceae: *Scleria cyperina* Willd. ex Kunth
2520 Passifloraceae: *Passiflora coccinea* Aubl.
2521 Bignoniaceae: *Arrabidaea candicans* (Rich.) DC.
2522 Loranthaceae: *Phthirusa stelis* (L.) Kuijt
2523 Passifloraceae: *Passiflora*
2524 Melastomataceae: *Tibouchina aspera* Aubl. var. *aspera*
2525 Fabaceae-Caesal.: *Chamaecrista viscosa* (Kunth) H.S. Irwin & Barneby var. *major* (Benth.) H.S. Irwin & Barneby
2526 Myrtaceae: *Eugenia biflora* (L.) DC.
2527 Solanaceae: *Solanum subinerme* Jacq.
2528 Eriocaulaceae: *Paepalanthus bifidus* (Schrad.) Kunth
2529 Solanaceae: *Solanum asperum* Rich.
2530 Solanaceae: *Solanum subinerme* Jacq.
2531 Fabaceae-Papil.: *Stylosanthes* aff. *hispida* Rich.
2532 Fabaceae-Caesal.: *Senna latifolia* (G. Mey.) H.S. Irwin & Barneby
2533 Chrysobalanaceae: *Licania incana* Aubl.
2534 Fabaceae-Papil.: *Dioclea virgata* (Rich.) Amshoff
2535 Lycopodiaceae: *Lycopodiella cernua* (L.) Pic. Serm.
2536 Symplocaceae: *Symplocos guianensis* (Aubl.) Gürke
2537 Malpighiaceae: *Byrsonima crassifolia* (L.) Kunth
2538 Humiriaceae: *Humiria balsamifera* Aubl. var. *guianensis* (Benth.) Cuatrec.
2539 Malpighiaceae: *Byrsonima spicata* (Cav.) DC.
2540 Malpighiaceae: *Tetrapterys styloptera* A. Juss.
2541 Rubiaceae: *Palicourea croceoides* Ham.
2542 Aquifoliaceae: *Ilex jenmanii* Loes.
2543 Myrtaceae: *Myrcia fallax* (Rich.) DC.

2544 Bombacaceae: *Pachira miñor* (Sims) Hemsl.
2545 Chrysobalanaceae: *Licania affinis* Fritsch
2546 Dilleniaceae: *Doliocarpus spraguei* Cheesman
2547 Icacinaceae: *Dendrobangia boliviana* Rusby
2548 Euphorbiaceae: *Amanoa guianensis* Aubl.
2549 Loganiaceae
2550 Clusiaceae: *Clusia grandiflora* Splitg.
2551 Fabaceae-Caesal.: *Macrolobium angustifolium* (Benth.) R.S. Cowan
2552 Rubiaceae: *Genipa americana* L.
2553 Melastomataceae: *Henriettea multiflora* Naudin
2554 Convolvulaceae: *Maripa scandens* Aubl.
2555 Polygalaceae: *Bredemeyera lucida* (Benth.) A.W. Benn.
2556 Asclepiadaceae: *Tassadia propinqua* Decne.
2557 Myrtaceae: *Marlierea cuprea* Amshoff
2558 Ochnaceae: *Ouratea guianensis* Aubl.
2559 Fabaceae-Papil.: *Ormosia fastigiata* Tul.
2560 Myrtaceae: *Myrciaria vismeifolia* (Benth.) O. Berg
2561 Asteraceae: *Mikania parviflora* (Aubl.) H. Karst.
2562 Myrtaceae: *Myrcia fallax* (Rich.) DC.
2563 Polygalaceae?
2564 Melastomataceae: *Mouriri* sp.
2565 Hippocrateaceae: *Tontelea laxiflora* (Benth.) A.C. Sm.
2566 Marcgraviaceae: *Norantea guianensis* Aubl.
2567 Hippocrateaceae: *Salacia impressifolia* (Miers) A.C. Sm.
2568 Fabaceae-Papil.: *Machaerium quinatum* (Aubl.) Sandwith
2569 Clusiaceae: *Caraipa*
2570 Chrysobalanaceae: *Licania parviflora* Benth.
2571 Orchidaceae: *Epidendrum nocturnum* Jacq.
2572 Polypodiaceae: *Polypodium triseriale* Sw.
2573 Bignoniaceae: *Tabebuia subtilis* Sprague & Sandwith
2574 Lecythidaceae: *Couratari riparia* Sandwith
2575 Bignoniaceae: *Distictella elongata* (Vahl) Urb.
2576 Hippocrateaceae
2577 Bromeliaceae: *Mezobromelia pleiosticha* (Griseb.) Utley & H. Luther
2578 Euphorbiaceae: *Amanoa guianensis* Aubl.
2579 Rubiaceae: *Genipa spruceana* Steyerm.
2580 Loranthaceae: *Phthirusa rufa* (Mart.) Eichler
2581 Asclepiadaceae
2582 Malpighiaceae: *Banisteriopsis lucida* (Rich.) Small
2583 Bromeliaceae: *Tillandsia fendleri* Griseb.
2584 Malvaceae: *Pavonia fruticosa* (Mill.) Fawc. & Rendle
2585 Cannaceae: *Canna indica* L.
2586 Rubiaceae: *Gonzalagunia dicocca* Cham. & Schltdl.
2587 Piperaceae: *Piper peltatum* L.
2588 Campanulaceae: *Centropogon cornutus* (L.) Druce
2589 Rubiaceae: *Psychotria poeppigiana* Müll. Arg.
2590 Poaceae: *Ichnanthus panicoides* P. Beauv.
2591 Euphorbiaceae: *Euphorbia hirta* L.
2592 Heliconiaceae: *Heliconia bihai* (L.) L.
2593 Piperaceae: *Piper hispidum* Sw.
2594 Rubiaceae: *Notopleura uliginosa* (Sw.) Bremek.
2595 Amaranthaceae: *Cyathula prostrata* (L.) Blume
2596 Gesneriaceae: *Nautilocalyx mimuloides* (Benth.) C.V. Morton
2597 Melastomataceae: *Maieta poeppigii* Mart. ex Cogn.
2598 Myrsinaceae: *Ardisia guianensis* (Aubl.) Mez
2599 Marantaceae: *Calathea elliptica* (Roscoe) K. Schum.
2600 Melastomataceae: *Maieta guianensis* Aubl.
2601 Marantaceae: *Ischnosiphon arouma* (Aubl.) Körn.
2602 Rubiaceae: *Psychotria acuminata* Benth.
2603 Piperaceae: *Piper aequale* Vahl

2604 Solanaceae: *Solanum americanum* Mill.
2605 Piperaceae: *Piper aduncum* L.
2606 Asteraceae: *Erechtites valerianaefolia* (Wolf) Link ex Spreng.
2607 Marantaceae: *Ischnosiphon gracilis* (Rudge) Körn. ssp. *sandwithii* L. Andersson
2608 Arecaceae: *Bactris maraja* Mart.
2609 Annonaceae
2610 Melastomataceae: *Leandra solenifera* Cogn.
2611 a Melastomataceae: *Clidemia octona* (Bonpl.) L.O. Williams ssp. *guayanensis* Wurdack
2611 b Melastomataceae: *Clidemia silvicola* Gleason
2612 Heliconiaceae: *Heliconia pendula* Wawra
2613 Heliconiaceae: *Heliconia acuminata* Rich.
2614 Solanaceae: *Solanum rugosum* Dunal
2615 Piperaceae: *Piper hostmannianum* (Miq.) C. DC.
2616 Asteraceae: *Clibadium armani* (Balbis) Sch. Bip. ex O.E. Schulz
2617 Asteraceae: *Bidens cynapiifolia* Kunth
2618 Verbenaceae: *Lantana camara* L.
2619 Verbenaceae: *Lantana camara* L.
2620 Menispermaceae: *Cissampelos pareira* L.
2621 Solanaceae: *Solanum subinerme* Jacq.
2622 Heliconiaceae: *Heliconia spathocircinata* Aristeg.
2623 Thelypteridaceae: *Thelypteris opulenta* (Kaulf.) Fosberg
2624 a Cyatheaceae: *Cyathea pungens* (Willd.) Domin
2624 b Thelypteridaceae: *Thelypteris hispidula* (Decne.) C.F. Reed var. *hispidula*
2625 Fabaceae-Papil.: *Ormosia coutinhoi* Ducke
2626 Solanaceae: *Solanum subinerme* Jacq.
2627 Phytolaccaceae: *Phytolacca rivinoides* Kunth & Bouché
2628 Boraginaceae: *Cordia*
2629 Malpighiaceae: *Stigmaphyllon sinuatum* (DC.) A. Juss.
2630 Fabaceae-Caesal.: *Senna latifolia* (G. Mey.) H.S. Irwin & Barneby
2631 Melastomataceae: *Loreya mespiloides* Miq.
2632 Fabaceae-Papil.: *Vigna luteola* (Jacq.) Benth.
2633 Fabaceae-Papil.: *Desmodium barbatum* (L.) Benth.
2634 Cucurbitaceae: *Gurania lobata* (L.) Pruski
2635 Myrtaceae: *Psidium guineense* Sw.
2636 Solanaceae: *Solanum stramoniifolium* Jacq.
2637 Fabaceae-Papil.: *Crotalaria nitens* Kunth
2638 Piperaceae: *Piper glabrescens* (Miq.) C. DC.
2639 Zingiberaceae: *Renealmia alpinia* (Rottb.) Maas
2640 Poaceae: *Andropogon bicornis* L.
2641 Poaceae: *Setaria parviflora* (Poir.) Kerguélen
2642 a Cyperaceae: *Cyperus distans* L. f.
2642 b Cyperaceae: *Cyperus aggregatus* (Willd.) Endl.
2643 Poaceae: *Brachiaria mutica* (Forssk.) Stapf
2644 Poaceae: *Paspalum melanospermum* Desv. ex Poir.
2645 Fabaceae-Caesal.: *Chamaecrista nictitans* (L.) Moench var. *patellaria* (Collad.) H.S. Irwin & Barneby
2646 Poaceae: *Paspalum conjugatum* P.J. Bergius
2647 Poaceae: *Panicum rudgei* Roem. & Schult.
2648 Poaceae: *Ischaemum timorense* Kunth
2649 Cyperaceae: *Fimbristylis dichotoma* (L.) Vahl
2650 Cyperaceae: *Cyperus articulatus* L.
2651 Cyperaceae: *Cyperus sphacelatus* Rottb.
2652 Poaceae: *Eragrostis unioloides* (Retz.) Nees
2653 Siparunaceae: *Siparuna guianensis* Aubl.
2654 Asteraceae: *Calea solidaginea* Kunth ssp. *deltophylla* (R.S. Cowan) Pruski
2655 Boraginaceae: *Cordia polycephala* (Lam.) I.M. Johnst.
2656 Convolvulaceae: *Ipomoea* cf. *tiliacea* (Willd.) Choisy
2657 Rubiaceae: *Psychotria acuminata* Benth.

2658 Rubiaceae: *Psychotria deflexa* DC. ssp. *venulosa* (Müll. Arg.) Steyerm.
2659 Rubiaceae: *Psychotria paniculata* (Aubl.) Raeusch.
2660 Melastomataceae: *Adelobotrys permixta* Wurdack
2661 Melastomataceae: *Leandra divaricata* (Naudin) Cogn.
2662 Rubiaceae: *Psychotria racemosa* Rich.
2663 Lauraceae: *Endlicheria anomala* (Nees) Mez
2664 Lauraceae: *Ocotea puberula* (Rich.) Nees
2665 Piperaceae: *Piper augustum* Rudge
2666 Rubiaceae: *Faramea maguirei* Steyerm.
2667 Poaceae: *Parodiolyra micrantha* (Kunth) Davidse & Zuloaga
2668 Arecaceae: *Bactris simplicifrons* Mart.
2669 Melastomataceae: *Miconia lasseri* Gleason
2670 Melastomataceae: *Leandra divaricata* (Naudin) Cogn.
2671 Adiantaceae: *Adiantopsis radiata* (L.) Fée
2672 Flacourtiaceae
2673 Rubiaceae: *Palicourea guianensis* Aubl.
2674 Rubiaceae: *Psychotria erecta* (Aubl.) Standl. & Steyerm.
2675 Araceae: *Philodendron fragrantissimum* (Hook.) G. Don
2676 Araceae: *Anthurium pentaphyllum* (Aubl.) G. Don
2677 Bromeliaceae: *Guzmania lingulata* (L.) Mez
2678 Adiantaceae: *Adiantum phyllitidis* J. Sm.
2679 Cucurbitaceae: *Gurania subumbellata* (Miq.) Cogn.
2680 Adiantaceae: *Adiantum adiantoides* (J. Sm.) C. Chr.
2681 Boraginaceae: *Cordia*
2682 Rubiaceae: *Faramea morilloi* Steyerm.
2683 Melastomataceae: *Clidemia capitellata* (Bonpl.) D. Don var. *dependens* (D. Don) J.F. Macbr.
2684 Tectariaceae: *Tectaria incisa* Cav.
2685 Woodsiaceae: *Diplazium cristatum* (Desr.) Alston
2686 Cyclanthaceae: *Asplundia* cf. *maguirei* Harling
2687 Tectariaceae: *Tectaria trifoliata* (L.) Cav.
2688 Fabaceae-Papil.: *Dioclea guianensis* Benth.
2689 Bignoniaceae: *Phryganocydia corymbosa* (Vent.) Bureau ex K. Schum.
2690 Passifloraceae: *Passiflora auriculata* Kunth
2691 Rubiaceae: *Psychotria anceps* Kunth
2692 Erythroxylaceae: *Erythroxylum*
2693 Melastomataceae: *Clidemia sericea* D. Don
2694 Lamiaceae: *Ocimum campechianum* Mill.
2695 Ulmaceae: *Trema micrantha* (L.) Blume
2696 Arecaceae: *Geonoma maxima* (Poit.) Kunth
2697 Chrysobalanaceae: *Hirtella triandra* Sw. ssp. *triandra*
2698 Smilacaceae: *Smilax schomburgkiana* Kunth
2699 Fabaceae-Papil.: *Tephrosia sinapou* (Buc'hoz) A. Chev.
2700 Annonaceae: *Cymbopetalum brasiliense* (Vell.) Benth. ex Baill.
2701 Piperaceae: *Piper divaricatum* G. Mey.
2702 Melastomataceae: *Leandra* sp.
2703 Aristolochiaceae: *Aristolochia leprieurii* Duch.
2704 Boraginaceae: *Cordia nodosa* Lam.
2705 Piperaceae: *Piper hostmannianum* (Miq.) C. DC.
2706 Passifloraceae: *Passiflora rubra* L.
2707 Marantaceae: *Maranta gibba* Sm.
2708 Arecaceae: *Geonoma interrupta* (Ruiz & Pav.) Mart. var. *euspatha* (Burret) A.J. Hend.
2709 Dryopteridaceae: *Didymochlaena truncatula* (Sw.) J. Sm.
2710 Marantaceae: *Monotagma spicatum* (Aubl.) J.F. Macbr.
2711 Araceae: *Anthurium clavigerum* Poepp.
2712 Annonaceae: *Annona sericea* Dunal
2713 Piperaceae: *Peperomia duidana* Trel. ex Gleason
2714 Piperaceae: *Peperomia serpens* (Sw.) Loudon

2715 Aspleniaceae: *Asplenium cuneatum* Lam.
2716 Commelinaceae: *Tradescantia zanonia* (L.) Sw.
2717 Poaceae: *Andropogon leucostachyus* Kunth
2718 Poaceae: *Panicum nervosum* Lam.
2719 Lycopodiaceae: *Lycopodiella cernua* (L.) Pic. Serm.
2720 Lamiaceae
2721 Cyperaceae: *Rhynchospora barbata* (Vahl) Kunth
2722 Xyridaceae: *Xyris fallax* Malme
2723 Poaceae: *Eriochrysis cayennensis* P. Beauv.
2724 a Rubiaceae: *Sabicea velutina* Benth.
2724 b Rubiaceae
2725 Poaceae: *Paspalum lanciflorum* Trin.
2726 Gentianaceae: *Chelonanthus angustifolius* (Kunth) Gilg
2727 Orchidaceae: *Koellensteinia* cf. *kellneriana* Rchb. f.
2728 Burmanniaceae: *Burmannia bicolor* Mart.
2729 Melastomataceae: *Tococa guianensis* Aubl.
2730 Humiriaceae: *Humiria crassifolia* Mart. ex Urb.
2731 Rubiaceae: *Retiniphyllum* ?
2732 Clusiaceae: *Clusia pusilla* Steyerm.
2733 a Cyperaceae: *Scleria hirtella* Sw.
2733 b Rubiaceae: *Perama dichotoma* Poepp. & Endl.
2734 Orchidaceae: *Epistephium* cf. *sclerophyllum* Lindl.
2735 Clusiaceae: *Clusia macropoda* Klotzsch ex Engl.
2736 Asteraceae: *Lepidaploa bolivarensis* (V.M. Badillo) H. Rob.
2737 Melastomataceae: *Miconia ciliata* (Rich.) DC.
2738 Asteraceae: *Baccharis varians* Gardner
2739 Polygalaceae: *Polygala hygrophila* Kunth
2740 a Rubiaceae: *Borreria* cf. *ovalifolia* M. Martens & Galeotti
2740 b Cyperaceae: *Rhynchospora tenella* (Nees) Boeck.
2741 Melastomataceae: *Henriettea maroniensis* Sagot
2742 Myrtaceae: *Myrcia sylvatica* (G. Mey.) DC.
2743 Melastomataceae: *Miconia alata* (Aubl.) DC.
2744 Passifloraceae: *Passiflora auriculata* Kunth
2745 Erythroxylaceae: *Erythroxylum*
2746 Lacistemataceae: *Lacistema*
2747 Rubiaceae: *Psychotria hoffmannseggiana* (Willd. ex Roem. & Schult.) Müll. Arg.
2748 Rubiaceae: *Palicourea croceoides* Ham.
2749 Melastomataceae: *Macairea pachyphylla* Benth.
2750 Clusiaceae: *Vismia* sp.
2751 Rubiaceae: *Malanea gabrielensis* Müll. Arg.
2752 Orchidaceae: *Catasetum* sp.
2753 Orchidaceae: *Cyrtopodium* cf. *punctatum* (L.) Lindl.
2754 Melastomataceae: *Clidemia novemnervia* (DC.) Triana
2755 Piperaceae: *Peperomia macrostachya* (Vahl) A. Dietr.
2756 a Gentianaceae: *Chelonanthus angustifolius* (Kunth) Gilg
2756 b Rubiaceae: *Psychotria barbiflora* DC.
2757 Malpighiaceae: *Banisteriopsis pulcherrima* (Sandwith) B. Gates
2758 Melastomataceae: *Macairea thyrsiflora* DC. s.l.
2759 Gentianaceae: *Irlbachia cardonae* (Gleason) Maguire
2760 Rubiaceae: *Coccocypselum hirsutum* Bartl. ex DC.
2761 Orchidaceae: *Epistephium* sp.
2762 Orchidaceae: *Sobralia* cf. *macrophylla* Rchb. f.
2763 Orchidaceae: *Sobralia liliastrum* Lindl.
2764 Schizaeaceae: *Schizaea elegans* (Vahl) Sw.
2765 Melastomataceae: *Desmoscelis villosa* (Aubl.) Naudin
2766 Rubiaceae: *Palicourea triphylla* DC.
2767 Dennstaedtiaceae: *Lindsaea portoricensis* Desv.
2768 Thelypteridaceae: *Thelypteris arborescens* (Humb. & Bonpl. ex Willd.) C.V. Morton
2769 Apocynaceae: *Mandevilla subcarnosa* (Benth.) Woodson

2770 Asteraceae: *Achyrocline vargasiana* DC.
2771 Asteraceae: *Orthopappus angustifolius* (Sw.) Gleason
2772 Myrtaceae
2773 Cyperaceae: *Exochogyne amazonica* C.B. Clarke
2774 Hymenophyllaceae: *Trichomanes humboldtii* (Bosch) Lellinger
2775 Dilleniaceae: *Davilla kunthii* A. St.-Hil.
2776 Lamiaceae: *Hyptis lantanifolia* Poit.
2777 Gentianaceae: *Chelonanthus purpurascens* (Aubl.) Struwe, S. Nilsson & V.A. Albert
2778 Orchidaceae: *Hexisea imbricata* (Lindl.) Rchb. f.
2779 Rubiaceae: *Semaphyllanthe venezuelensis* (Steyerm.) L. Andersson
2780 Asteraceae: *Mikania psilostachya* DC.
2781 Ochnaceae
2782 Fabaceae-Mimos.: *Inga thibaudiana* DC.
2783 Euphorbiaceae: *Micrandra glabra* (R.E. Schult.) R.E. Schult.
2784 Melastomataceae: *Meriania urceolata* Triana
2785 Fabaceae-Caesal.: *Senna quinquangulata* (Rich.) H.S. Irwin & Barneby
2786 Poaceae: *Panicum* aff. *aequivaginatum* Swallen
2787 Melastomataceae: *Miconia ciliata* (Rich.) DC.
2788 Solanaceae: *Solanum subinerme* Jacq.
2789 Araceae: *Philodendron tatei* K. Krause
2790 Dilleniaceae: *Doliocarpus spraguei* Cheesman
2791 Heliconiaceae: *Heliconia psittacorum* L. f.
2792 Orchidaceae: *Epistephium subrepens* Hoehne
2793 Bromeliaceae: *Aechmea bromeliifolia* (Rudge) Baker
2794 Bonnetiaceae: *Archytaea triflora* Mart.
2795 Orchidaceae: *Epidendrum nocturnum* Jacq. var. *tumuc-humaciense* Veyret
2796 Bromeliaceae: *Tillandsia fendleri* Griseb.
2797 Bromeliaceae: *Catopsis berteroniana* (Schult. & Schult. f.) Mez
2798 Haloragaceae?
2799 Polygalaceae
2800 Rubiaceae: *Ladenbergia lambertiana* (A. Braun ex Mart.) Klotzsch
2801 Myrsinaceae: *Cybianthus fulvopulverulentus* (Mez) G. Agostini ssp. *fulvopulverulentus*
2802 Fabaceae-Caesal.: *Dimorphandra macrostachya* Benth.
2803 Ericaceae: *Sphyrospermum cordifolium* Benth.
2804 Orchidaceae: *Epidendrum ramosum* Jacq.
2805 Ericaceae: *Satyria panurensis* (Benth. ex Meisn.) Benth. & Hook. f. ex Nied.
2805 a Annonaceae: *Anaxagorea* sp.
2806 Melastomataceae: *Phainantha laxiflora* (Triana) Gleason
2807 Apocynaceae
2808 Burmanniaceae: *Dictyostega orobanchoides* (Hook.) Miers
2809 Rubiaceae: *Perama dichotoma* Poepp. & Endl.
2810 a Schizaeaceae: *Actinostachys pennula* (Sw.) Hook.
2810 b Schizaeaceae: *Schizaea incurvata* Schkuhr
2811 Bonnetiaceae: *Bonnetia paniculata* Spruce ex Benth.
2812 Rapateaceae: *Rapatea steyermarkii* Maguire
2813 Poaceae
2814 Burseraceae: *Trattinnickia burserifolia* Mart.
2815 Gleicheniaceae: *Dicranopteris flexuosa* (Schrad.) Underw.
2816 Blechnaceae: *Blechnum serrulatum* Rich.
2817 Ochnaceae: *Sauvagesia*
2818 Melastomataceae: *Tococa macrosperma* Mart.
2819 Vochysiaceae: *Qualea polychroma* Stafleu
2820 Cyperaceae: *Hypolytrum pulchrum* (Rudge) H. Pfeiff.
2821 Cyperaceae: *Didymiandrum stellatum* (Boeck.) Gilly
2822 Bombacaceae: *Pachira*
2823 Melastomataceae: *Tococa aristata* Benth.
2824 Melastomataceae: *Tococa aristata* Benth.

2825 Bonnetiaceae: *Bonnetia paniculata* Spruce ex Benth.
2826 Droseraceae: *Drosera*
2827 Bromeliaceae: *Brocchinia micrantha* (Baker) Mez
2828 Schizaeaceae: *Schizaea poeppigiana* J.W. Sturm
2829 a Cladoniaceae: *Cladonia signata* (Eschw.) Vain.
2829 b Cladoniaceae: *Cladina rosea* Ahti, sp. nov. ined.
2830 Thurniaceae: *Thurnia sphaerocephala* (Rudge) Hook. f. ssp. nov.
2831 Cyrillaceae: *Cyrilla racemiflora* L.
2832 Aquifoliaceae: *Ilex* cf. *guianensis* (Aubl.) Kuntze
2833 Fabaceae-Papil.: *Swartzia invenusta* Barneby
2834 Passifloraceae: *Passiflora auriculata* Kunth
2835 Melastomataceae: *Phainantha laxiflora* (Triana) Gleason
2836 Campanulaceae
2837 Lichen
2838 Rapateaceae: *Saxofridericia regalis* R.H. Schomb.
2839 Moraceae: *Ficus guianensis* Desv. ex Ham. s.l.
2840 Cyperaceae: *Scleria cyperina* Willd. ex Kunth
2841 Bromeliaceae: *Tillandsia bulbosa* Hook.
2842 Bromeliaceae: *Vriesea incurva* (Griseb.) Read
2843 Bromeliaceae: *Tillandsia spiculosa* Griseb.
2844 Orchidaceae: *Epidendrum carpophorum* Barb. Rodr.
2845 Araceae: *Urospatha sagittifolia* (Rudge) Schott
2846 Combretaceae: *Terminalia quintalata* Maguire
2847 Bromeliaceae: *Aechmea bromeliifolia* (Rudge) Baker
2848 Xyridaceae: *Xyris*
2849 Cyperaceae: *Hypolytrum longifolium* (Rich.) Nees ssp. *sylvaticum* (Poepp. & Kunth) T. Koyama
2850 Cyperaceae: *Rhynchospora cephalotes* (L.) Vahl
2851 Burseraceae: *Protium*
2852 Araceae: *Philodendron callosum* K. Krause
2853 Eriocaulaceae
2854 Asteraceae: *Praxelis asperulacea* (Baker) R.M. King & H. Rob.
2855 Orchidaceae: *Cleistes rosea* Lindl.
2856 Malpighiaceae: *Byrsonima crassifolia* (L.) Kunth
2857 Rubiaceae: *Perama hirsuta* Aubl.
2858 Lentibulariaceae: *Utricularia triloba* Benj.
2859 Orchidaceae: *Habenaria* sp.
2860 Poaceae: *Leptocoryphium lanatum* (Kunth) Nees
2861 a Orchidaceae: *Jacquiniella globosa* (Jacq.) Schltr.
2861 b Orchidaceae: *Epidendrum strobiloides* Garay & Dunst.
2862 Orchidaceae: *Maxillaria mapiriensis* (Kraenzl.) L.O. Williams
2863 Orchidaceae: *Octomeria* cf. *filifolia* C. Schweinf.
2864 Bignoniaceae: *Distictella obovata* Sandwith
2865 Cyatheaceae: *Cyathea macrosora* (Baker) Domin var. *macrosora*
2866 Dilleniaceae: *Doliocarpus spraguei* Cheesman
2867 Cyperaceae: *Exochogyne amazonica* C.B. Clarke
2868 Gentianaceae: *Irlbachia* cf. *pratensis* (Kunth) L. Cobb & Maas
2869 Rubiaceae: *Psychotria barbiflora* DC.
2870 Chrysobalanaceae: *Hirtella racemosa* Lam. var. *racemosa*
2871 Poaceae: *Parodiolyra micrantha* (Kunth) Davidse & Zuloaga
2872 Boraginaceae: *Cordia nodosa* Lam.
2873 Convolvulaceae
2874 Rubiaceae: *Remijia densiflora* Benth.
2875 a Cyperaceae: *Didymiandrum stellatum* (Boeck.) Gilly
2875 b Malpighiaceae: *Blepharandra hypoleuca* (Benth.) Griseb.
2876 Ericaceae: *Vaccinium euryanthum* A.C. Sm.
2877 Rubiaceae: *Declieuxia fruticosa* (Willd. ex Roem. & Schult.) Kuntze
2878 Eriocaulaceae
2879 Cyperaceae: *Bulbostylis junciformis* (Kunth) C.B. Clarke

2879 a Cyperaceae: *Rhynchospora caracasana* (Kunth) Boeck.
2880 Polygalaceae: *Polygala appressa* Benth. var. *gracillima* (S. Watson) A.W. Benn.
2881 Xyridaceae: *Abolboda acaulis* Maguire var. *acaulis*
2882 Xyridaceae: *Xyris involucrata* Nees
2883 Melastomataceae: *Macairea lasiophylla* (Benth.) Wurdack
2884 Rubiaceae: *Psychotria* aff. *egensis* Müll. Arg.
2885 Orchidaceae: *Epistephium* sp.
2886 Orchidaceae: *Sobralia liliastrum* Lindl.
2887 Ericaceae: *Bejaria sprucei* Meisn.
2888 Asteraceae: *Erechtites hieracifolia* (L.) Raf. ex DC.
2889 Asteraceae: *Lepidaploa remotiflora* (Rich.) H. Rob.
2890 Orchidaceae: *Epistephium parviflorum* Lindl.
2891 Myrsinaceae: *Cybianthus fulvopulverulentus* (Mez) G. Agostini ssp. *fulvopulverulentus*
2892 Cyperaceae: *Cyperus aggregatus* (Willd.) Endl.
2893 Myrtaceae: *Myrcia sylvatica* (G. Mey.) DC.
2894 Ericaceae: *Vaccinium euryanthum* A.C. Sm.
2895 Sapotaceae: *Pouteria rigida* K (Mart. & Eichler) Radlk. var. *rigida*
2896 a Melastomataceae: *Clidemia pustulata* DC.
2896 b Melastomataceae: *Clidemia capitata* Benth.
2897 Melastomataceae: *Clidemia capitata* Benth.
2898 Ericaceae
2899 Sapotaceae: *Pradosia schomburgkiana* (A. DC.) Cronquist
2900 Aquifoliaceae: *Ilex* sp.
2901 Fabaceae-Papil.: *Clitoria*
2902 Gentianaceae: *Tetrapollinia caerulescens* (Aubl.) Maguire & B.M. Boom
2903 Asteraceae: *Lepidaploa bolivarensis* (V.M. Badillo) H. Rob.
2904 Viscaceae: *Dendrophthora elliptica* (Gardner) Krug & Urb.
2905 Melastomataceae: *Tococa nitens* (Benth.) Triana
2906 Rapateaceae: *Stegolepis ptaritepuiensis* Steyerm.
2907 Bromeliaceae: *Brocchinia steyermarkii* L.B. Sm.
2908 Heliconiaceae: *Heliconia psittacorum* L. f.
2909 Rubiaceae: *Retiniphyllum*
2910 Gesneriaceae
2911 Clusiaceae: *Clusia picta* Pipoly, sp. nov. ined.
2912 Poaceae: *Panicum polycomum* Trin.
2913 Orchidaceae: *Epidendrum longicolle* Lindl.
2914 Orchidaceae: *Scaphyglottis stellata* Lodd. ex Lindl.
2915 Bromeliaceae: *Guzmania lingulata* (L.) Mez
2916 Vochysiaceae: *Ruizterania rigida* (Stafleu) Marc.-Berti
2917 Sapotaceae
2918 Apocynaceae: *Mandevilla holstii* Morillo
2919 Ochnaceae: *Ouratea cernuiflora* Sandwith
2920 Humiriaceae: *Sacoglottis amazonica* Mart.
2921 Melastomataceae: *Miconia plukenetii* Naudin
2922 Bromeliaceae: *Pitcairnia maidifolia* (C. Morren) Decne. ex Planch. & Linden
2923 Loganiaceae: *Spigelia multispica* Steud.
2924 Araceae: *Spathiphyllum cannifolium* (Dryand. ex Sims) Schott
2925 Zingiberaceae: *Renealmia monosperma* Miq.
2926 Myrtaceae: *Myrcia fallax* (Rich.) DC.
2927 Polypodiaceae: *Pleopeltis percussa* (Cav.) Hook. & Grev.
2928 Melastomataceae: *Clidemia* sp.
2929 Onagraceae: *Ludwigia octovalvis* (Jacq.) P.H. Raven
2930 Theaceae: *Ternstroemia*
2931 Lomariopsidaceae: *Elaphoglossum praetermissum* Mickel
2932 Lomariopsidaceae: *Elaphoglossum plumosum* (Fée) T. Moore
2933 Indet.

2934 Ericaceae: *Vaccinium puberulum* Klotzsch ex Meisn.
2935 Ericaceae: *Psammisia guianensis* Klotzsch
2936 Melastomataceae: *Clidemia capitata* Benth.
2936 a Melastomataceae
2937 Araliaceae: *Schefflera sessiliflora* Splithof-Heerschop ex Frodin
2938 Melastomataceae: *Clidemia capitata* Benth.
2939 Smilacaceae: *Smilax cumanensis* Humb. & Bonpl. ex Willd.
2940 Boraginaceae: *Cordia nodosa* Lam.
2941 Orchidaceae: *Sobralia liliastrum* Lindl.
2942 Rhamnaceae
2943 Orchidaceae: *Maxillaria auyantepuiensis* Foldats
2944 Erythroxylaceae: *Erythroxylum*
2945 Araceae: *Anthurium ptarianum* Steyerm.
2946 Eriocaulaceae
2947 Araceae: *Stenospermation maguirei* A.M.E. Jonker & Jonker
2948 Rubiaceae: *Psychotria astrellantha* Wernham
2949 Rubiaceae: *Duroia fusifera* Hook. f. ex K. Schum.
2950 Melastomataceae: *Miconia alborufescens* Naudin
2951 Melastomataceae: *Leandra purpurea* Gleason
2952 Campanulaceae: *Centropogon cornutus* (L.) Druce
2953 Clusiaceae: *Clusia schomburgkiana* (Planch. & Triana) Benth. ex Engl.
2954 Melastomataceae: *Tococa aristata* Benth.
2955 Bignoniaceae: *Schlegelia spruceana* K. Schum.
2956 Myrtaceae
2957 NO RECORD
2958 NO RECORD
2959 Fungi-Basidiomycete
2960 Velloziaceae: *Vellozia candida* J.C. Mikan
2961 Apocynaceae: *Mandevilla benthamii* (A. DC.) K. Schum.
2962 Bromeliaceae: *Catopsis berteroniana* (Schult. & Schult. f.) Mez
2963 Asteraceae: *Gongylolepis benthamiana* R.H. Schomb.
2964 Asteraceae: *Stenopadus talaumifolius* S.F. Blake
2965 Chrysobalanaceae: *Licania incana* Aubl.
2966 Malpighiaceae: *Banisteriopsis pulcherrima* (Sandwith) B. Gates
2967 Liliaceae: *Isidrogalvia schomburgkiana* (Oliv.) Cruden
2968 Fabaceae-Papil.: *Taralea*
2969 Melastomataceae: *Tibouchina fraterna* N.E. Br.
2970 Ericaceae: *Bejaria sprucei* Meisn.
2971 Sapotaceae: *Pradosia schomburgkiana* (A. DC.) Cronquist
2972 Poaceae: *Axonopus flabelliformis* Swallen
2973 Aquifoliaceae: *Ilex*
2974 Orchidaceae: *Epidendrum nocturnum* Jacq. var. *tumuc-humaciense* Veyret
2975 Orchidaceae: *Epidendrum secundum* Jacq.
2976 Orchidaceae: *Epidendrum nocturnum* Jacq. var. *tumuc-humaciense* Veyret
2977 Orchidaceae: *Epistephium subrepens* Hoehne
2978 Clusiaceae: *Clusia*
2979 Poaceae: *Trachypogon spicatus* (L. f.) Kuntze
2980 Cyperaceae: *Lagenocarpus guianensis* Lindl. & Nees ex Nees ssp. *guianensis*
2981 Poaceae: *Echinolaena inflexa* (Poir.) Chase
2982 Passifloraceae: *Passiflora auriculata* Kunth
2983 Moraceae: *Ficus guianensis* Desv. ex Ham.
2984 Loranthaceae: *Struthanthus syringifolius* (Mart.) Mart.
2985 Eriocaulaceae
2986 Bonnetiaceae: *Archytaea triflora* Mart.
2987 Malpighiaceae: *Blepharandra hypoleuca* (Benth.) Griseb.
2988 Chrysobalanaceae: *Licania latifolia* Benth. ex Hook. f.
2989 Clusiaceae: *Clusia obovata* (Spruce ex Planch. & Triana) Pipoly
2990 Oleandraceae: *Oleandra pilosa* Hook.
2991 Melastomataceae: *Graffenrieda caryophyllea* Triana

2992 Bombacaceae: *Pachira minor* (Sims) Hemsl.
2993 Humiriaceae
2994 Polypodiaceae: *Phlebodium pseudoaureum* (Cav.) Lellinger
2995 Bryophyte
2996 Bryophyte
2997 Lycopodiaceae
2998 Rubiaceae: *Coccocypselum hirsutum* Bartl. ex DC.
2999 Bromeliaceae: *Guzmania sphaeroidea* (André) André ex Mez
3000 Ericaceae: *Cavendishia callista* Donn. Sm.
3001 Burseraceae: *Protium* sp. nov.
3002 Caryocaraceae: *Anthodiscus mazarunensis* Gilly
3003 Polygonaceae: *Coccoloba schomburgkii* Meisn.
3004 Fabaceae-Papil.: *Taralea oppositifolia* Aubl.
3005 Humiriaceae: *Humiria crassifolia* Mart. ex Urb. var. *acutipetala* Cuatrec.
3006 Rapateaceae: *Stegolepis angustata* Gleason
3007 Gleicheniaceae: *Dicranopteris nervosa* (Kaulf.) Maxon
3008 Gentianaceae: *Chelonanthus purpurascens* (Aubl.) Struwe, S. Nilsson & V.A. Albert
3009 Xyridaceae: *Xyris fallax* Malme
3010 Xyridaceae: *Xyris involucrata* Nees
3011 Burmanniaceae: *Burmannia bicolor* Mart.
3012 Asteraceae: *Calea lucidivenia* Gleason & S.F. Blake var. *orientalis* (Maguire & Wurdack) Pruski
3013 Myrtaceae: *Myrcia rotundata* (Amshoff) McVaugh var. *rotundata*
3014 Myrsinaceae: *Cybianthus duidae* (Gleason & Moldenke) G. Agostini
3015 Apocynaceae: *Galactophora schomburgkiana* Woodson
3016 Asteraceae: *Stomatochaeta condensata* (Baker) Maguire & Wurdack
3017 Ericaceae
3018 Theaceae: *Ternstroemia*
3019 Polytrichaceae: *Polytrichum commune* Hedw.
3020 Funariaceae: *Funaria hygrometrica* Hedw. var. *calvescens* (Schwaegr.) Mont.
3021 Ochnaceae: *Sauvagesia guianensis* (Eichler) Sastre
3022 Melastomataceae: *Marcetia taxifolia* (A. St.-Hil.) DC.
3023 Rubiaceae: *Chalepophyllum*
3024 Ochnaceae: *Sauvagesia angustifolia* Ule
3025 Orchidaceae: *Sobralia* cf. *infundibuligera* Garay & Dunst.
3026 Iridaceae: *Trimezia guianensis* Ravenna
3027 Bromeliaceae: *Pitcairnia maidifolia* (C. Morren) Decne. ex Planch. & Linden
3028 Melastomataceae: *Macairea thyrsiflora* DC. s.l.
3029 Melastomataceae: *Clidemia tepuiensis* Wurdack
3030 Lentibulariaceae: *Utricularia humboldtii* R.H. Schomb.
3031 Droseraceae: *Drosera roraimae* (Klotzsch ex Diels) Maguire & J.R. Laundon
3032 Ochnaceae: *Ouratea* cf. *cernuiflora* Sandwith
3033 Asteraceae: *Lepidaploa bolivarensis* (V.M. Badillo) H. Rob.
3034 Aquifoliaceae: *Ilex restusa* Klotzsch ex Reissek
3035 Sapindaceae: *Matayba ptariana* Steyerm.
3036 Asteraceae: *Mikania sprucei* Baker
3037 Orchidaceae: *Epidendrum* sp.
3038 Myrtaceae: *Eugenia kaieteurensis* Amshoff
3039 Melastomataceae: *Miconia ciliata* (Rich.) DC.
3040 Marcgraviaceae: *Sarcopera* cf. *tepuiensis* (de Roon) Bedell
3041 Rubiaceae: *Psychotria*
3042 Fabaceae-Caesal.: *Dicymbe fraterna* R.S. Cowan
3043 Lycopodiaceae: *Lycopodiella caroliniana* (L.) Pic. Serm. var. *meridionalis* (Underw. & F.E. Lloyd) B. Oellg. & P.G.
3044 Ochnaceae: *Poecilandra retusa* Tul.
3045 Cyrillaceae: *Cyrilla racemiflora* L.
3046 Passifloraceae: *Passiflora sclerophylla* Harms
3047 Vochysiaceae: *Vochysia*
3048 Orchidaceae: *Epistephium* sp.

3049 Bryophyte
3049 a Bromeliaceae: *Aechmea bromeliifolia* (Rudge) Baker
3050 Dennstaedtiaceae: *Lindsaea stricta* (Sw.) Dryand. var. *jamesoniiformis* K.U. Kramer
3051 Gesneriaceae: *Chrysothemis pulchella* (Donn ex Sims) Decne.
3052 Piperaceae: *Piper demeraranum* (Miq.) C. DC.
3053 Rubiaceae: *Palicourea triphylla* DC.
3054 Gesneriaceae: *Nautilocalyx porphyrotrichus* (Leeuwenb.) Wiehler
3055 Siparunaceae: *Siparuna*
3056 Rubiaceae
3057 Adiantaceae: *Adiantopsis radiata* (L.) Fée
3058 Quiinaceae
3059 Melastomataceae: *Clidemia japurensis* DC. var. *japurensis*
3060 Melastomataceae: *Miconia ceramicarpa* (DC.) Cogn.
3061 Araceae: *Spathiphyllum cannifolium* (Dryand. ex Sims) Schott
3062 Ochnaceae: *Ouratea cernuiflora* Sandwith
3063 Bignoniaceae: *Arrabidaea candicans* (Rich.) DC.
3064 Ochnaceae: *Poecilandra retusa* Tul.
3065 Icacinaceae: *Emmotum conjunctum* R.A. Howard
3066 Chrysobalanaceae: *Licania lasseri* Maguire
3067 Poaceae: *Arthrostylidium scandens* McClure
3068 Malpighiaceae
3069 Poaceae: *Andropogon virgatus* Desv.
3070 Annonaceae: *Guatteria* sp.
3071 Melastomataceae: *Henriettea maroniensis* Sagot
3072 Melastomataceae: *Macairea pachyphylla* Benth.
3073 Monotaceae: *Pakaraimaea dipterocarpacea* Maguire & P.S. Ashton
3074 Poaceae: *Panicum polycomum* Trin.
3075 Rubiaceae: *Perama dichotoma* Poepp. & Endl.
3076 Malpighiaceae: *Byrsonima concinna* Benth.
3077 Orchidaceae: *Epidendrum macrocarpum* Rich.
3078 Melastomataceae: *Meriania sclerophylla* (Naudin) Triana
3079 Dennstaedtiaceae: *Lindsaea semilunata* (C. Chr.) C. Chr.
3080 Lentibulariaceae
3081 Passifloraceae: *Passiflora auriculata* Kunth
3082 Rubiaceae: *Manettia* cf. *alba* (Aubl.) Wernham
3083 Melastomataceae: *Aciotis purpurascens* (Aubl.) Triana
3084 Bromeliaceae: *Navia arida* L.B. Sm. & Steyerm.
3085 Malpighiaceae: *Banisteriopsis pulcherrima* (Sandwith) B. Gates
3086 Rubiaceae: *Pagamea capitata* Benth.
3087 Melastomataceae: *Miconia ciliata* (Rich.) DC.
3088 Clusiaceae: *Clusia*
3089 Rubiaceae: *Psychotria crocochlamys* Sandwith
3090 Lamiaceae
3091 Scrophulariaceae: *Buchnera rosea* Kunth
3092 Myrtaceae: *Myrcia sylvatica* (G. Mey.) DC.
3093 Icacinaceae
3094 Rubiaceae: *Psychotria hemicephaelis* Wernham
3095 Melastomataceae: *Tococa aristata* Benth.
3096 Asteraceae: *Gamochaeta simplicicaulis* (Willd. ex Spreng.) Cabrera
3097 Fungi
3098 Rapateaceae: *Rapatea fanshawei* Maguire
3099 Aspleniaceae: *Asplenium auritum* Sw.
3100 Oleandraceae: *Nephrolepis cordifolia* (L.) C. Presl
3101 Orchidaceae: *Sobralia* sp.
3102 Melastomataceae: *Maieta poeppigii* Mart. ex Cogn.
3103 Melastomataceae
3104 Convolvulaceae: *Ipomoea* sp.
3105 Asteraceae: *Bidens pilosa* L.
3106 Malvaceae: *Sida*
3107 Gentianaceae: *Voyria caerulea* Aubl.

3108 Annonaceae: *Rollinia exsucca* (DC. ex Dunal) A. DC.
3109 Arecaceae: *Desmoncus polyacanthos* Mart.
3110 Rubiaceae: *Chiococca alba* (L.) Hitchc.
3111 Rubiaceae: *Manettia alba* (Aubl.) Wernham
3112 Humiriaceae: *Humiria balsamifera* Aubl.
3112 a Dichapetalaceae
3113 Gentianaceae: *Chelonanthus alatus* (Aubl.) Pulle
3114 Solanaceae: *Solanum subinerme* Jacq.
3115 Poaceae: *Andropogon leucostachyus* Kunth
3116 Poaceae: *Schizachyrium condensatum* (Kunth) Nees
3117 Rubiaceae: *Psychotria apoda* Steyerm.
3118 Rubiaceae: *Psychotria polycephala* Benth.
3119 Rubiaceae: *Retiniphyllum schomburgkii* (Benth.) Müll. Arg.
3120 Ericaceae: *Bejaria*
3121 a Schizaeaceae: *Schizaea incurvata* Schkuhr
3121 b Schizaeaceae: *Actinostachys pennula* (Sw.) Hook.
3122 Orchidaceae: *Sobralia liliastrum* Lindl.
3123 Melastomataceae: *Siphanthera cordifolia* (Benth.) Gleason
3124 Humiriaceae: *Humiria balsamifera* Aubl. var. *floribunda* (Mart.) Cuatrec.
3125 Rubiaceae: *Psychotria apoda* Steyerm.
3126 Melastomataceae: *Clidemia silvicola* Gleason
3127 Rubiaceae: *Psychotria hoffmannseggiana* (Willd. ex Roem. & Schult.) Müll. Arg.
3128 Ulmaceae: *Trema micrantha* (L.) Blume
3129 Solanaceae: *Solanum rugosum* Dunal
3130 Piperaceae: *Piper hostmannianum* (Miq.) C. DC.
3131 Clusiaceae: *Clusia schomburgkiana* (Planch. & Triana) Benth. ex Engl.
3132 Rubiaceae: *Duroia eriopila* L. f.
3133 a Asteraceae: *Piptocarpha polycephala* Baker
3133 b Melastomataceae: *Miconia ciliata* (Rich.) DC.
3134 Eriocaulaceae
3135 Loranthaceae: *Phthirusa rufa* (Mart.) Eichler
3136 Aquifoliaceae: *Ilex daphnogenea* Reissek
3137 Annonaceae: *Xylopia aromatica* (Lam.) Mart.
3138 Melastomataceae: *Miconia ciliata* (Rich.) DC.
3139 Dryopteridaceae: *Cyclodium inerme* (Fée) A.R. Sm.
3140 Melastomataceae: *Clidemia strigillosa* (Sw.) DC.
3141 Asteraceae: *Wulffia baccata* (L.) Kuntze
3142 Rubiaceae: *Psychotria poeppigiana* Müll. Arg.
3143 Icacinaceae: *Emmotum conjunctum* R.A. Howard
3144 Malpighiaceae: *Byrsonima crassifolia* (L.) Kunth
3145 Rubiaceae: *Pagamea capitata* Benth.
3146 Cyatheaceae: *Cyathea cyatheoides* (Desv.) K.U. Kramer
3147 Asclepiadaceae
3148 Rubiaceae: *Faramea maguirei* Steyerm.
3149 Poaceae: *Paspalum arenarium* Schrad.
3150 Xyridaceae: *Xyris involucrata* Nees
3151 Rubiaceae: *Palicourea triphylla* DC.
3152 Poaceae: *Axonopus fissifolius* (Raddi) Kuhlm.
3153 Dennstaedtiaceae: *Lindsaea* aff. *portoricensis* Desv.
3154 Loranthaceae: *Struthanthus* sp.
3155 Dilleniaceae: *Davilla kunthii* A. St.-Hil.
3156 Melastomataceae: *Miconia holosericea* (L.) DC.
3157 Ochnaceae: *Elvasia elvasioides* (Planch.) Gilg
3158 Malpighiaceae: *Tetrapterys styloptera* A. Juss.
3159 Chrysobalanaceae: *Hirtella racemosa* Lam.
3160 Melastomataceae: *Miconia serrulata* (DC.) Naudin
3161 Melastomataceae: *Miconia prasina* (Sw.) DC.

3162 Smilacaceae: *Smilax schomburgkiana* Kunth
3163 Melastomataceae: *Miconia splendens* (Sw.) Griseb.
3164 Sapotaceae: *Micropholis venulosa* (Mart. & Eichler) Pierre
3165 Bignoniaceae: *Tabebuia subtilis* Sprague & Sandwith
3166 Bombacaceae: *Pachira minor* (Sims) Hemsl.
3167 Fabaceae-Mimos.: *Inga sertulifera* DC.
3168 Apocynaceae: *Odontadenia macrantha* (Roem. & Schult.) Markgr.
3169 Convolvulaceae: *Maripa scandens* Aubl.
3170 Lygodiaceae: *Lygodium volubile* Sw.
3171 Loganiaceae: *Strychnos*
3172 Chrysobalanaceae
3173 Apocynaceae: *Odontadenia macrantha* (Roem. & Schult.) Markgr.
3174 Passifloraceae: *Passiflora capparidifolia* Killip
3175 Fabaceae-Papil.: *Mucuna urens* (L.) Medik.
3176 Melastomataceae: *Henriettea multiflora* Naudin
3177 Fabaceae-Caesal.: *Macrolobium angustifolium* (Benth.) R.S. Cowan
3178 Chrysobalanaceae: *Hirtella glandistipula* Ducke
3179 Apocynaceae: *Prestonia cayennensis* (A. DC.) Pichon
3180 Polygalaceae: *Securidaca paniculata* Rich.
3181 Rubiaceae: *Uncaria guianensis* (Aubl.) J.F. Gmel.
3182 Fabaceae-Papil.
3183 Boraginaceae
3184 Myrtaceae
3185 Hippocrateaceae: *Cheiloclinium diffusiflorum* (Miers) A.C. Sm.
3186 Smilacaceae: *Smilax schomburgkiana* Kunth
3187 Sapindaceae: *Paullinia rufescens* Rich. ex Juss.
3188 Fabaceae-Mimos.: *Inga splendens* Willd.
3189 Rubiaceae: *Palicourea croceoides* Ham.
3190 Apocynaceae: *Odontadenia macrantha* (Roem. & Schult.) Markgr.
3191 Apocynaceae: *Odontadenia verrucosa* (Willd. ex Roem. & Schult.) K. Schum. ex Markgr.
3192 Dioscoreaceae: *Dioscorea*
3193 Apocynaceae: *Odontadenia macrantha* (Roem. & Schult.) Markgr.
3194 Viscaceae: *Phoradendron perrottetii* (DC.) Eichler
3195 Burseraceae: *Protium heptaphyllum* (Aubl.) Marchand ssp. *heptaphyllum*
3196 Fabaceae-Mimos.: *Pentaclethra macroloba* (Willd.) Kuntze
3197 Fabaceae-Mimos.: *Parkia pendula* (Willd.) Benth. ex Walp.
3198 Poaceae: *Trachypogon spicatus* (L. f.) Kuntze
3199 Asteraceae: *Lepidaploa remotiflora* (Rich.) H. Rob.
3200 Euphorbiaceae: *Phyllanthus amarus* Schumach. & Thonn.
3201 Fabaceae-Papil.: *Tephrosia*
3202 Asteraceae: *Acanthospermum australe* (Loefl.) Kuntze
3203 Cyperaceae: *Cyperus aggregatus* (Willd.) Endl.
3204 Cyperaceae: *Rhynchospora ciliata* (Vahl) Kük.
3205 Poaceae: *Paspalum virgatum* L.
3206 Loganiaceae: *Spigelia anthelmia* L.
3207 Solanaceae: *Solanum americanum* Mill.
3208 Poaceae: *Eragrostis unioloides* (Retz.) Nees
3209 Rubiaceae: *Sipanea pratensis* Aubl.
3210 Ochnaceae: *Sauvagesia erecta* L.
3211 Fabaceae-Papil.: *Desmodium* ? *barbatum* (L.) Benth.
3212 Fabaceae-Caesal.
3213 Asteraceae: *Emilia fosbergii* Nicolson
3214 Poaceae: *Andropogon bicornis* L.
3215 Asteraceae: *Centratherum punctatum* Cass.
3216 Vitaceae: *Cissus erosa* Rich.
3217 Cucurbitaceae: *Gurania subumbellata* (Miq.) Cogn.
3218 Rubiaceae: *Psychotria paniculata* (Aubl.) Raeusch.
3219 Violaceae: *Paypayrola longifolia* Tul.
3220 Melastomataceae: *Leandra divaricata* (Naudin) Cogn.
3221 Rubiaceae: *Psychotria barbiflora* DC.

3222 Heliconiaceae: *Heliconia densiflora* B. Verl.
3223 Convolvulaceae: *Jacquemontia sphaerostigma* (Cav.) Rusby
3224 Verbenaceae: *Lantana camara* L.
3225 Rubiaceae: *Coccocypselum hirsutum* Bartl. ex DC.
3226 Convolvulaceae: *Jacquemontia guyanensis* (Aubl.) Meisn.
3227 Melastomataceae: *Clidemia microthyrsa* R.O. Williams
3228 Fabaceae-Papil.
3229 Melastomataceae: *Miconia macrothyrsa* Benth.
3230 Fungi-Basidiomycete
3231 Convolvulaceae: *Ipomoea quamoclit* L.
3232 Euphorbiaceae: *Croton hirtus* L'Hér.
3233 Malvaceae: *Urena lobata* L.
3234 Commelinaceae: *Commelina erecta* L.
3235 Melastomataceae: *Clidemia capitellata* (Bonpl.) D. Don
3236 Melastomataceae: *Clidemia hirta* (L.) D. Don var. *elegans* (Aubl.) Griseb.
3237 Myrtaceae: *Psidium guineense* Sw.
3238 Polygalaceae: *Polygala longicaulis* Kunth
3239 Melastomataceae: *Pterolepis trichotoma* (Rottb.) Cogn.
3240 Mendonciaceae: *Mendoncia hoffmannseggiana* Nees
3241 Melastomataceae: *Miconia dodecandra* Cogn.
3242 NO RECORD through 3249
3250 Bignoniaceae: *Distictella elongata* (Vahl) Urb.
3251 Rhabdodendraceae: *Rhabdodendron amazonicum* (Spruce ex Benth.) Huber
3252 Moraceae: *Ficus malacocarpa* Standl.
3253 Acanthaceae: *Justicia calycina* (Nees) V.A.W. Graham
3254 Rubiaceae: *Sabicea glabrescens* Benth.
3255 Fabaceae-Caesal.: *Macrolobium bifolium* (Aubl.) Pers.
3256 Cecropiaceae: *Coussapoa microcephala* Trécul
3257 Myrtaceae: *Myrcia sylvatica* (G. Mey.) DC.
3258 Apocynaceae: *Tabernaemontana undulata* Vahl
3259 Rubiaceae: *Genipa spruceana* Steyerm.
3260 Convolvulaceae: *Calycobolus glaber* (Kunth) House
3261 Myrtaceae: *Eugenia biflora* (L.) DC.
3262 Hippocrateaceae: *Hippocratea volubilis* L.
3263 Lauraceae: *Nectandra amazonum* Nees
3264 Burseraceae: *Protium heptaphyllum* (Aubl.) Marchand s.s.
3265 Caryocaraceae: *Anthodiscus trifoliatus* G. Mey.
3266 Fabaceae-Caesal.: *Campsiandra comosa* Benth. var. *comosa*
3267 Myrtaceae: *Myrciaria vismeifolia* (Benth.) O. Berg
3268 Fabaceae-Mimos.: *Inga disticha* Benth.
3269 Bignoniaceae: *Pleonotoma clematis* (Kunth) Miers
3270 Bignoniaceae: *Cydista aequinoctialis* (L.) Miers
3271 Fabaceae-Caesal.: *Eperua rubiginosa* Miq.
3271 a Fabaceae-Caesal.: *Eperua falcata* Aubl.
3272 Malvaceae: *Peltaea trinervis* (C. Presl) Krapov. & Cristóbal
3273 Asteraceae: *Calea caleoides* (DC.) H. Rob.
3274 Malvaceae: *Urena lobata* L.
3275 Asteraceae: *Lepidaploa gracilis* (Kunth) H. Rob.
3276 Podostemaceae: *Apinagia surumuensis* (Engl.) P. Royen
3276 a Podostemaceae: *Rhyncholacis linearis* Tul.
3277 Myrtaceae: *Psidium acutangulum* DC.
3278 Trigoniaceae: *Trigonia villosa* Aubl. var. *villosa*
3279 Turneraceae: *Turnera aurantiaca* Benth.
3280 Myrtaceae: *Myrcia guianensis* (Aubl.) DC.
3281 Fabaceae-Papil.: *Machaerium inundatum* (Mart. ex Benth.) Ducke
3282 Bignoniaceae: *Paragonia pyramidata* (Rich.) Bureau
3283 Passifloraceae: *Passiflora capparidifolia* Killip
3284 Passifloraceae: *Passiflora vespertilio* L.
3285 Vitaceae: *Cissus erosa* Rich.
3286 Rubiaceae: *Chomelia angustifolia* Benth.

3287 Fabaceae-Caesal.: *Macrolobium acaciifolium* (Benth.) Benth.
3288 Malvaceae: *Sida glomerata* Cav.
3289 Fabaceae-Mimos.: *Pentaclethra macroloba* (Willd.) Kuntze
3290 Apocynaceae: *Tabernaemontana undulata* Vahl
3291 Selaginellaceae: *Selaginella parkeri* (Hook. & Grev.) Spring
3292 Sapotaceae
3293 Commelinaceae: *Dichorisandra hexandra* (Aubl.) Standl.
3294 Melastomataceae: *Miconia bracteata* (DC.) Triana
3295 Rubiaceae: *Psychotria polycephala* Benth.
3296 Lentibulariaceae: *Utricularia pusilla* Vahl
3297 Scrophulariaceae: *Bacopa aquatica* Aubl.
3298 Verbenaceae: *Petrea volubilis* L.
3299 Rapateaceae: *Rapatea paludosa* Aubl. var. *paludosa*
3300 Zingiberaceae: *Renealmia orinocensis* Rusby
3301 Arecaceae
3302 Arecaceae: *Bactris* cf. *simplicifrons* Mart.
3303 Marantaceae: *Monotagma spicatum* (Aubl.) J.F. Macbr.
3304 Melastomataceae: *Maieta poeppigii* Mart. ex Cogn.
3305 a Gentianaceae: *Voyria corymbosa* Splitg. ssp. *corymbosa*
3305 b Lentibulariaceae
3306 Arecaceae: *Bactris balanophora* Spruce
3307 Araceae: *Urospatha sagittifolia* (Rudge) Schott
3308 Melastomataceae: *Tococa aristata* Benth.
3309 Piperaceae: *Piper trichoneuron* (Miq.) C. DC.
3310 Dennstaedtiaceae: *Lindsaea lancea* (L.) Bedd. var. *lancea*
3311 a Rubiaceae: *Geophila repens* (L.) I.M. Johnst.
3311 b Cyperaceae: *Calyptrocarya glomerulata* (Brongn.) Urb.
3312 Cyatheaceae: *Cyathea surinamensis* (Miq.) Domin
3313 Piperaceae: *Piper trichoneuron* (Miq.) C. DC.
3314 Melastomataceae: *Clidemia hirta* (L.) D. Don var. *elegans* (Aubl.) Griseb.
3315 Piperaceae: *Piper aequale* Vahl
3316 Solanaceae: *Solanum stramoniifolium* Jacq.
3317 Rubiaceae: *Borreria assurgens* (Ruiz & Pav.) Griseb.
3318 Melastomataceae: *Aciotis indecora* (Bonpl.) Triana
3319 Rubiaceae: *Isertia hypoleuca* Benth.
3320 Dennstaedtiaceae: *Lindsaea quadrangularis* Raddi ssp. *antillensis* K.U. Kramer
3321 Dryopteridaceae: *Cyclodium meniscioides* (Willd.) C. Presl var. *meniscioides*
3322 Metaxyaceae: *Metaxya rostrata* (Kunth) C. Presl
3323 Piperaceae: *Piper trichoneuron* (Miq.) C. DC.
3324 Piperaceae: *Piper trichoneuron* (Miq.) C. DC.
3325 Piperaceae: *Piper arboreum* Aubl.
3326 Podostemaceae: *Apinagia richardiana* (Tul.) P. Royen
3327 Trigoniaceae: *Trigonia villosa* Aubl. var. *villosa*
3328 Fabaceae-Mimos.: *Inga disticha* Benth.
3329 Combretaceae: *Combretum rotundifolium* Rich.
3330 Fabaceae-Papil.: *Dalbergia monetaria* L. f.
3331 Hippocrateaceae: *Hippocratea volubilis* L.
3332 Hippocrateaceae: *Hippocratea volubilis* L.
3333 Bromeliaceae: *Aechmea mertensii* (G. Mey.) Schult. & Schult. f.
3334 Bignoniaceae: *Cydista aequinoctialis* (L.) Miers
3335 Fabaceae-Caesal.: *Eperua schomburgkiana* Benth.
3336 Sapindaceae: *Matayba* cf. *elegans* Radlk.
3337 Menispermaceae: *Orthomene schomburgkii* (Miers) Barneby & Krukoff
3338 Solanaceae: *Solanum pensile* Sendtn.
3339 Bignoniaceae: *Cydista aequinoctialis* (L.) Miers

3340 Oxalidaceae: *Oxalis frutescens* L.
3341 Rubiaceae: *Diodia hyssopifolia* (Willd. ex Roem. & Schult.) Cham. & Schltdl.
3342 Cyperaceae: *Cyperus luzulae* (L.) Rottb. ex Retz.
3343 Chrysobalanaceae: *Licania coriacea* Benth.
3344 Orchidaceae: *Prosthechea vespa* (Vell.) W.E. Higgins
3345 Apocynaceae: *Malouetia gracilis* (Benth.) A. DC.
3346 Poaceae: *Orthoclada laxa* (Rich.) P. Beauv.
3347 Poaceae: *Paspalum virgatum* L.
3348 Poaceae: *Ichnanthus pallens* (Sw.) Munro ex Benth.
3349 Lamiaceae: *Hyptis parkeri* Benth.
3350 Euphorbiaceae: *Croton trinitatis* Millsp.
3351 Convolvulaceae: *Merremia macrocalyx* (Ruiz & Pav.) O'Donell
3352 Poaceae: *Ichnanthus tenuis* (J. Presl) Hitchc. & Chase
3353 Poaceae: *Olyra latifolia* L.
3354 Commelinaceae: *Commelina rufipes* Seub. var. *glabrata* (D.R. Hunt) Faden & D.R. Hunt
3355 Haemodoraceae: *Xiphidium caeruleum* Aubl.
3356 Boraginaceae: *Tournefortia ulei* Vaupel
3357 Passifloraceae: *Passiflora coccinea* Aubl.
3358 Siparunaceae: *Siparuna guianensis* Aubl.
3359 Acanthaceae: *Justicia pectoralis* Jacq.
3360 Poaceae: *Paspalum conjugatum* P.J. Bergius
3361 Verbenaceae: *Stachytarpheta cayennensis* (Rich.) Vahl
3362 Euphorbiaceae: *Phyllanthus urinaria* L.
3363 Poaceae: *Paspalum pilosum* Lam.
3364 Fabaceae-Papil.: *Desmodium adscendens* (Sw.) DC.
3365 Verbenaceae: *Lantana camara* L.
3366 Asteraceae: *Clibadium sylvestre* (Aubl.) Baill.
3367 Arecaceae: *Geonoma maxima* (Poit.) Kunth
3368 Olacaceae: *Heisteria cauliflora* Sm.
3369 Annonaceae
3370 Violaceae: *Rinorea pubiflora* (Benth.) Sprague & Sandwith
3371 Adiantaceae: *Adiantum argutum* Splitg.
3372 Costaceae: *Costus scaber* Ruiz & Pav.
3373 Marantaceae: *Calathea legrelleana* (Linden) Regel
3374 Rubiaceae: *Psychotria barbiflora* DC.
3375 Annonaceae: *Unonopsis* sp.
3376 Malpighiaceae: *Tetrapterys styloptera* A. Juss.
3377 Podostemaceae: *Mourera fluviatilis* Aubl.
3378 Euphorbiaceae: *Amanoa guianensis* Aubl.
3379 Heliconiaceae: *Heliconia acuminata* Rich.
3380 Bromeliaceae: *Ananas parguazensis* L.A. Camargo & L.B. Sm.
3381 Vochysiaceae: *Vochysia* cf. *tetraphylla* (G. Mey.) DC.
3382 Fabaceae-Papil.: *Indigofera*
3383 Smilacaceae: *Smilax schomburgkiana* Kunth
3384 Fabaceae-Caesal.: *Dialium guianense* (Aubl.) Sandwith
3385 Violaceae: *Rinorea pubiflora* (Benth.) Sprague & Sandwith
3386 Burseraceae: *Protium heptaphyllum* (Aubl.) Marchand s.s.
3387 Costaceae: *Costus arabicus* L.
3388 Fabaceae-Papil.: *Dioclea virgata* (Rich.) Amshoff
3389 Bignoniaceae: *Memora schomburgkii* (DC.) Miers
3390 Convolvulaceae: *Ipomoea* ? *tiliacea* (Willd.) Choisy
3391 Solanaceae: *Solanum pensile* Sendtn.
3392 Passifloraceae: *Passiflora vespertilio* L.
3393 Apocynaceae?
3394 Polygonaceae: *Triplaris weigeltiana* (Rchb.) Kuntze
3395 Fabaceae-Papil.: *Swartzia*
3396 Melastomataceae: *Mouriri guianensis* Aubl.
3397 Myrtaceae: *Psidium densicomum* DC.
3398 Fabaceae-Mimos.: *Hydrochorea corymbosa* (Rich.) Barneby & J.W. Grimes
3399 Combretaceae: *Combretum pyramidatum* Desv.

3400 Fabaceae-Papil.: *Acosmium nitens* (Vogel) Yakovlev
3400 b Cyclanthaceae: *Evodianthus funifer* (Poit.) Lindm.
3401 Chrysobalanaceae: *Hirtella* ?
3402 Chrysobalanaceae: *Licania coriacea* Benth.
3403 Piperaceae: *Piper hostmannianum* (Miq.) C. DC.
3404 Melastomataceae: *Aciotis purpurascens* (Aubl.) Triana
3405 Moraceae: *Ficus guianensis* Desv. ex Ham.
3406 Burseraceae: *Trattinnickia* cf. *burserifolia* Mart.
3407 Scrophulariaceae: *Scoparia dulcis* L.
3408 Melastomataceae: *Bellucia grossularioides* (L.) Triana
3409 Lacistemataceae: *Lacistema aggregatum* (P.J. Bergius) Rusby
3410 Lycopodiaceae: *Lycopodiella cernua* (L.) Pic. Serm.
3411 Asteraceae: *Mikania parviflora* (Aubl.) H. Karst.
3412 Piperaceae: *Piper hostmannianum* (Miq.) C. DC.
3413 Costaceae: *Costus erythrothyrsus* Loes.
3414 Loganiaceae: *Spigelia multispica* Steud.
3415 Gesneriaceae: *Codonanthe crassifolia* (H. Focke) C.V. Morton
3416 Piperaceae: *Peperomia macrostachya* (Vahl) A. Dietr.
3417 Clusiaceae: *Clusia flavida* (Benth.) Pipoly
3418 Clusiaceae: *Vismia gracilis* Hieron.
3419 Euphorbiaceae: *Aparisthmium cordatum* (A. Juss.) Baill.
3420 Melastomataceae: *Ernestia glandulosa* Gleason
3421 Campanulaceae: *Centropogon cornutus* (L.) Druce
3422 Apocynaceae: *Odontadenia puncticulosa* (Rich.) Pulle
3423 Gesneriaceae: *Besleria saxicola* C.V. Morton
3424 Polypodiaceae: *Microgramma reptans* (Cav.) A.R. Sm.
3425 Melastomataceae: *Miconia mirabilis* (Aubl.) L.O. Williams
3426 Passifloraceae: *Passiflora glandulosa* Cav.
3427 Fabaceae-Mimos.: *Inga*
3428 Piperaceae: *Piper hostmannianum* (Miq.) C. DC.
3429 Ulmaceae: *Trema micrantha* (L.) Blume
3430 Fabaceae-Caesal.: *Senna*
3431 Piperaceae: *Piper pseudoglabrescens* Trel. & Yunck.
3432 Piperaceae: *Piper hispidum* Sw.
3433 Dryopteridaceae: *Stigmatopteris rotundata* (Humb. & Bonpl. ex Willd.) C. Chr.
3434 Euphorbiaceae: *Mabea speciosa* Müll. Arg. ssp. *speciosa*
3435 Melastomataceae: *Aciotis purpurascens* (Aubl.) Triana
3436 Melastomataceae: *Leandra divaricata* (Naudin) Cogn.
3437 Rubiaceae: *Psychotria psittacina* Steyerm.
3438 Sabiaceae: *Ophiocaryon maguirei* Barneby
3439 Rubiaceae: *Patima guianensis* Aubl.
3440 Piperaceae: *Piper arboreum* Aubl. ssp. *tuberculatum* (Jacq.) Tebbs
3441 Arecaceae: *Geonoma aspidiifolia* Spruce
3442 Melastomataceae: *Leandra sanguinea* Gleason
3443 Rubiaceae: *Ixora potaroensis* Steyerm.
3444 Solanaceae: *Markea camponoti* Ducke
3445 Arecaceae
3446 Araceae: *Anthurium expansum* Gleason
3446 a Arecaceae: *Bactris simplicifrons* Mart.
3447 Violaceae: *Paypayrola* cf. *guianensis* Aubl.
3448 Marantaceae: *Calathea* sp.
3449 Nyctaginaceae: *Neea*
3450 Rubiaceae: *Notopleura uliginosa* (Sw.) Bremek.
3451 Rubiaceae: *Psychotria iodotricha* Müll. Arg.
3452 Begoniaceae: *Begonia humilis* Dryand.
3453 Gesneriaceae: *Nautilocalyx pictus* (Hook.) Sprague
3454 Solanaceae: *Lycianthes pauciflora* (Vahl) Bitter
3455 Tectariaceae: *Tectaria trifoliata* (L.) Cav.
3456 Solanaceae: *Solanum costatum* M. Nee
3457 Heliconiaceae: *Heliconia pendula* Wawra

3458 Cyperaceae: *Mapania pycnocephala* (Benth.) Benth. ssp. *fluviatilis* (Sandwith) T. Koyama
3459 Cyperaceae: *Scleria latifolia* Sw.
3460 Cyclanthaceae
3461 Fungi
3462 Araceae: *Anthurium* cf. *thrinax* Madison
3463 Dryopteridaceae: *Cyclodium inerme* (Fée) A.R. Sm.
3464 Sabiaceae: *Ophiocaryon maguirei* Barneby
3465 Fabaceae-Caesal.: *Bauhinia* cf. *rutilans* Spruce ex Benth.
3466 Piperaceae: *Piper obliquum* Ruiz & Pav.
3467 Passifloraceae: *Passiflora glandulosa* Cav.
3467 a Passifloraceae: *Passiflora coccinea* Aubl.
3468 Apocynaceae: *Tabernaemontana disticha* A. DC.
3469 Thelypteridaceae: *Thelypteris macrophylla* (Kunze) C.V. Morton
3470 Polypodiaceae: *Polypodium dulce* Poir.
3471 Sabiaceae: *Ophiocaryon maguirei* Barneby
3472 Passifloraceae: *Passiflora coccinea* Aubl.
3473 Acanthaceae: *Justicia mcdowellii* Wassh.
3474 Annonaceae: *Anaxagorea dolichocarpa* Sprague & Sandwith
3475 Flacourtiaceae?
3476 a Rubiaceae
3476 b Hymenophyllaceae: *Trichomanes elegans* Rich.
3477 Apocynaceae: *Macropharynx spectabilis* (Stadelm.) Woodson
3478 Rubiaceae: *Sipanea wilson-brownei* R.S. Cowan
3479 Heliconiaceae: *Heliconia*
3480 Bromeliaceae: *Aechmea campanulata* L.B. Sm.
3481 Polyporaceae: *Irpex* sp.
3482 Bryophyte
3483 Bryophyte
3484 Araceae: *Anthurium expansum* Gleason
3485 Dryopteridaceae: *Stigmatopteris rotundata* (Humb. & Bonpl. ex Willd.) C. Chr.
3486 Cyclanthaceae: *Dicranopygium* cf. *pygmaeum* (Gleason) Harling
3487 Arecaceae: *Geonoma* cf. *maxima* (Poit.) Kunth
3488 a Poaceae
3488 b Cyclanthaceae: *Dicranopygium pygmaeum* (Gleason) Harling
3489 Nyctaginaceae: *Neea* cf. *mollis* Spruce ex J.A. Schmidt
3490 Rubiaceae: *Ixora potaroensis* Steyerm.
3491 Rubiaceae: *Psychotria aetantha* (Sandwith) Steyerm.
3492 Araceae: *Anthurium expansum* Gleason
3493 Rubiaceae: *Psychotria apoda* Steyerm.
3494 Piperaceae: *Piper hostmannianum* (Miq.) C. DC.
3495 Annonaceae: *Guatteria paludosa* R.E. Fr.
3496 Fabaceae-Caesal.: *Cassia*
3497 Flacourtiaceae: *Mayna odorata* Aubl.
3498 Bryophyte
3499 Fungi-Basidiomycete
3500 Polypodiaceae: *Campyloneurum phyllitidis* (L.) C. Presl
3501 Fabaceae-Papil.: *Clitoria*
3502 Gleicheniaceae: *Dicranopteris pectinata* (Willd.) Underw.
3503 Clusiaceae: *Clusia flavida* (Benth.) Pipoly
3504 Fabaceae-Papil.: *Dioclea*
3505 Melastomataceae: *Bellucia grossularioides* (L.) Triana
3506 Rubiaceae: *Sipanea hispida* Benth. ex Wernham
3507 Melastomataceae: *Miconia racemosa* (Aubl.) DC.
3508 Annonaceae: *Annona sericea* Dunal
3509 Solanaceae: *Solanum schlechtendalianum* Walp.
3510 Rubiaceae: *Psychotria psittacina* Steyerm.
3511 Asteraceae: *Mikania parviflora* (Aubl.) H. Karst.
3512 Melastomataceae: *Tococa* or *Miconia* sp. nov. ?
3513 Violaceae?
3514 Poaceae: *Ichnanthus pallens* (Sw.) Munro ex Benth.
3515 Fabaceae-Caesal.: *Bauhinia*
3516 Poaceae: *Ichnanthus* cf. *tenuis* (J. Presl) Hitchc. & Chase

3517 Acanthaceae: *Justicia calycina* (Nees) V.A.W. Graham
3518 Melastomataceae: *Leandra sanguinea* Gleason
3519 Melastomataceae: *Aciotis purpurascens* (Aubl.) Triana
3520 Meliaceae: *Guarea pubescens* (Rich.) A. Juss.
3521 Melastomataceae: *Ernestia glandulosa* Gleason
3522 Marantaceae: *Calathea propinqua* (Poepp. & Endl.) Körn.
3523 Dryopteridaceae: *Cyclodium meniscioides* (Willd.) C. Presl
3524 Araceae: *Anthurium* ? *thrinax* Madison
3525 Bignoniaceae: *Schlegelia spruceana* K. Schum.
3526 Cucurbitaceae: *Gurania lobata* (L.) Pruski
3527 Eriocaulaceae: *Eriocaulon heterodoxum* Moldenke
3528 Cyperaceae: *Fuirena umbellata* Rottb.
3529 Rubiaceae: *Borreria densiflora* DC.
3530 Melastomataceae: *Nepsera aquatica* (Aubl.) Naudin
3531 Asteraceae: *Calea caleoides* (DC.) H. Rob.
3532 Poaceae: *Eragrostis unioloides* (Retz.) Nees
3533 Cyperaceae: *Rhynchospora pubera* (Vahl) Boeck. ssp. *pubera*
3534 Cyperaceae: *Cyperus luzulae* (L.) Rottb. ex Retz.
3535 Fabaceae-Papil.: *Calopogonium mucunoides* Desv.
3536 Araceae: *Monstera adansonii* Schott
3537 Dilleniaceae: *Davilla kunthii* A. St.-Hil.
3538 Xyridaceae: *Xyris jupicai* Rich.
3538 b Bromeliaceae: *Aechmea mertensii* (G. Mey.) Schult. & Schult. f.
3539 Fabaceae-Caesal.: *Cassia*
3540 Fabaceae-Mimos.: *Inga*
3541 Fabaceae-Mimos.: *Mimosa myriadenia* (Benth.) Benth.
3542 Fabaceae-Mimos.: *Pentaclethra macroloba* (Willd.) Kuntze
3543 Rubiaceae: *Isertia hypoleuca* Benth.
3544 Passifloraceae: *Passiflora vespertilio* L.
3545 Melastomataceae: *Miconia mirabilis* (Aubl.) L.O. Williams
3546 Bromeliaceae: *Aechmea campanulata* L.B. Sm.
3547 Ganodermataceae: *Ganoderma* cf. *orbiformis* (Fr.) Ryvarden
3548 Bryophyte
3549 Annonaceae: *Rollinia exsucca* (DC. ex Dunal) A. DC.
3550 Clusiaceae: *Vismia sessilifolia* (Aubl.) Choisy
3551 Euphorbiaceae: *Mabea speciosa* Müll. Arg. ssp. *speciosa*
3552 Melastomataceae: *Miconia hypoleuca* (Benth.) Triana
3553 Rubiaceae: *Palicourea guianensis* Aubl.
3554 Solanaceae: *Solanum* aff. *leucocarpon* Dunal
3555 Araceae: *Anthurium expansum* Gleason
3556 Melastomataceae: *Tococa aristata* Benth.
3557 Rutaceae: *Conchocarpus fanshawei* (Sandwith) Kallunki & Pirani
3558 Annonaceae: *Duguetia pauciflora* Rusby
3559 Melastomataceae: *Aciotis purpurascens* (Aubl.) Triana
3560 Thurniaceae: *Thurnia sphaerocephala* (Rudge) Hook. f.
3561 Marantaceae: *Calathea cyclophora* Baker
3562 Rubiaceae: *Psychotria apoda* Steyerm.
3563 Clusiaceae: *Vismia sessilifolia* (Aubl.) Choisy
3564 Passifloraceae: *Passiflora glandulosa* Cav.
3565 Rapateaceae: *Spathanthus unilateralis* (Rudge) Desv. var. *unilateralis*
3566 Dryopteridaceae: *Cyclodium inerme* (Fée) A.R. Sm.
3567 Thelypteridaceae: *Thelypteris opulenta* (Kaulf.) Fosberg
3568 Cyatheaceae: *Cyathea cyatheoides* (Desv.) K.U. Kramer
3569 Metaxyaceae: *Metaxya rostrata* (Kunth) C. Presl
3570 Dryopteridaceae: *Cyclodium meniscioides* (Willd.) C. Presl var. *meniscioides*
3571 Rubiaceae: *Sipanea*
3572 Polypodiaceae: *Dicranoglossum desvauxii* (Klotzsch) Proctor

3573 Poaceae: *Paspalum virgatum* L.
3574 Cyperaceae: *Eleocharis interstincta* (Vahl) Roem. & Schult.
3575 Cyperaceae: *Cyperus luzulae* (L.) Rottb. ex Retz.
3576 Cyperaceae: *Cyperus laxus* Lam.
3577 Eriocaulaceae: *Paepalanthus fasciculatus* (Rottb.) Kunth
3578 Cyperaceae: *Cyperus odoratus* L.
3579 Cyperaceae: *Cyperus ligularis* L.
3580 Solanaceae: *Solanum stramoniifolium* Jacq.
3581 Lycopodiaceae: *Lycopodiella cernua* (L.) Pic. Serm.
3582 Poaceae: *Panicum pilosum* Sw.
3583 Asteraceae: *Erechtites hieracifolia* (L.) Raf. ex DC.
3584 Apocynaceae
3585 Marattiaceae: *Danaea elliptica* Sm. subsp. *simplicifolia* (Rudge) Rolleri
3586 Melastomataceae: *Miconia mirabilis* (Aubl.) L.O. Williams
3587 Flacourtiaceae: *Ryania speciosa* Vahl
3588 Melastomataceae: *Leandra purpurea* Gleason
3589 Passifloraceae: *Passiflora coccinea* Aubl.
3590 Rubiaceae
3591 Melastomataceae: *Ernestia glandulosa* Gleason
3592 Rubiaceae: *Psychotria psittacina* Steyerm.
3593 Araceae: *Rhodospatha venosa* Gleason
3594 Clusiaceae: *Vismia sandwithii* Ewan
3595 Cyperaceae: *Mapania sylvatica* Aubl.
3596 Rubiaceae: *Psychotria transiens* Wernham
3597 Costaceae: *Costus claviger* Benoist
3598 Cyperaceae: *Cyperus luzulae* (L.) Rottb. ex Retz.
3599 Cyperaceae: *Rhynchospora pubera* (Vahl) Boeck. ssp. *pubera*
3600 Piperaceae: *Piper divaricatum* G. Mey.
3601 Dichapetalaceae: *Dichapetalum* cf. *pedunculatum* (DC.) Baill.
3602 Cyperaceae: *Calyptrocarya bicolor* (H. Pfeiff.) T. Koyama
3603 Fungi-Basidiomycete
3604 a Poaceae: *Panicum pilosum* Sw.
3604 b Poaceae: *Paspalum plicatulum* Michx.
3605 Cyperaceae: *Fuirena umbellata* Rottb.
3606 Poaceae: *Andropogon ? glomeratus* (Walter) E. Britton, Stearns, & Poggenb.
3607 Rubiaceae: *Coccocypselum hirsutum* Bartl. ex DC.
3608 Bromeliaceae: *Aechmea tillandsioides* (Mart. ex Schult. f.) Baker
3609 Boraginaceae: *Cordia nodosa* Lam.
3610 Melastomataceae: *Miconia mirabilis* (Aubl.) L.O. Williams
3611 a Fabaceae-Mimos.: *Abarema barbouriana* (Standl.) Barneby & J.W. Grimes
3611 b Orchidaceae: *Prosthechea vespa* (Vell.) W.E. Higgins
3612 Malpighiaceae: *Byrsonima christianeae* W.R. Anderson
3613 Annonaceae: *Anaxagorea dolichocarpa* Sprague & Sandwith
3614 Lacistemataceae: *Lacistema aggregatum* (P.J. Bergius) Rusby
3615 Fabaceae-Caesal.
3616 Lentibulariaceae: *Utricularia hispida* Lam.
3617 Siparunaceae
3618 Fabaceae
3619 Xyridaceae: *Xyris jupicai* Rich.
3620 Cyperaceae: *Eleocharis flavescens* (Poir.) Urb.
3621 Fabaceae-Papil.: *Swartzia*
3622 Rubiaceae: *Hoffmannia* sp.
3622 b Fabaceae-Papil.: *Dioclea violacea* Mart. ex Benth.
3623 Dennstaedtiaceae: *Lindsaea stricta* (Sw.) Dryand. var. *parvula* (Fée) K.U. Kramer
3624 Clusiaceae: *Clusia cuneata* Benth.
3625 Clusiaceae: *Vismia gracilis* Hieron.
3626 Euphorbiaceae: *Hevea* cf. *pauciflora* (Spruce ex Benth.) Müll. Arg.
3627 Celastraceae: *Goupia glabra* Aubl.
3628 Clusiaceae
3629 Rubiaceae
3630 Blechnaceae: *Salpichlaena hookeriana* (Kuntze) Alston
3631 Siparunaceae: *Siparuna guianensis* Aubl.
3632 Asteraceae: *Centratherum punctatum* Cass.
3633 Burseraceae
3634 Erythroxylaceae: *Erythroxylum*

3635 a Myrtaceae: *Myrcia sylvatica* (G. Mey.) DC.
3635 b Myrtaceae
3636 Araceae: *Urospatha sagittifolia* (Rudge) Schott
3637 Araceae
3638 Gesneriaceae: *Codonanthe calcarata* (Miq.) Hanst.
3639 Piperaceae: *Peperomia macrostachya* (Vahl) A. Dietr.
3640 Burseraceae: *Protium cuneatum* Swart
3641 Polypodiaceae: *Microgramma reptans* (Cav.) A.R. Sm.
3642 Bromeliaceae: *Araeococcus micranthus* Brongn.
3643 Myrtaceae: *Eugenia florida* DC.
3644 Flacourtiaceae: *Ryania speciosa* Vahl
3645 Dennstaedtiaceae: *Saccoloma elegans* Kaulf.
3646 Piperaceae: *Peperomia rotundifolia* (L.) Kunth
3647 Orchidaceae: *Epidendrum difforme* Jacq.
3648 Ganodermataceae: *Ganoderma* sp.
3649 Fungi-Basidiomycete
3650 Fungi-Basidiomycete
3651 Polyporaceae: *Fomes* sp. *?*
3652 Bryophyte
3653 Bryophyte
3654 Bryophyte
3655 Orchidaceae: *Stelis* sp.
3656 Rapateaceae: *Spathanthus unilateralis* (Rudge) Desv.
3657 Rapateaceae
3658 Araceae: *Anthurium jenmanii* Engl.
3659 Bryophyte
3660 Fungi-Basidiomycete
3661 Cyperaceae: *Calyptrocarya bicolor* (H. Pfeiff.) T. Koyama
3662 Melastomataceae: *Tococa aristata* Benth.
3663 Gesneriaceae: *Codonanthe crassifolia* (H. Focke) C.V. Morton
3664 Gesneriaceae: *Codonanthe calcarata* (Miq.) Hanst.
3665 Araceae: *Anthurium expansum* Gleason
3666 Fungi-Basidiomycete
3667 Fungi
3668 Bryophyte
3669 Ganodermataceae: *Ganoderma* sp.
3670 Gentianaceae: *Tachia guianensis* Aubl.
3671 Rapateaceae: *Rapatea paludosa* Aubl.
3672 Rapateaceae: *Spathanthus unilateralis* (Rudge) Desv.
3673 Fabaceae-Papil.: *Clathrotropis ? paradoxa* Sandwith
3674 Arecaceae: *Mauritiella aculeata* (Kunth) Burret
3675 Cyperaceae: *Hypolytrum longifolium* (Rich.) Nees ssp. *sylvaticum* (Poepp. & Kunth) T. Koyama
3676 Fungi-Basidiomycete
3677 Fungi-Basidiomycete
3678 Fungi-Basidiomycete
3679 Annonaceae
3680 Bromeliaceae: *Aechmea mertensii* (G. Mey.) Schult. & Schult. f.
3680 a Bromeliaceae: *Aechmea angustifolia* Poepp. & Endl.
3681 Rubiaceae: *Psychotria rosea* (Benth.) Müll. Arg.
3682 Annonaceae: *Annona*
3683 Rubiaceae: *Duroia eriopila* L. f.
3684 Trigoniaceae: *Trigonia subcymosa* Benth.
3685 Arecaceae: *Bactris maraja* Mart. var. *maraja*
3686 Rubiaceae: *Psychotria apoda* Steyerm.
3687 Euphorbiaceae: *Mabea speciosa* Müll. Arg.
3688 Marantaceae: *Ischnosiphon puberulus* Loes. var. *scaber* (Petersen) L. Andersson
3689 Annonaceae: *Duguetia tenuis* R.E. Fr.
3690 Annonaceae: *Anaxagorea dolichocarpa* Sprague & Sandwith
3691 Annonaceae: *Duguetia* sp.
3692 Arecaceae: *Bactris hirta* Mart.
3693 Bromeliaceae: *Aechmea mertensii* (G. Mey.) Schult. & Schult. f.
3694 Rapateaceae: *Spathanthus unilateralis* (Rudge) Desv.
3695 Piperaceae: *Peperomia macrostachya* (Vahl) A. Dietr.
3696 Hymenophyllaceae: *Trichomanes pinnatum* Hedw.
3697 Orchidaceae: *Prosthechea vespa* (Vell.) W.E. Higgins
3698 Orchidaceae: *Maxillaria uncata* Lindl.
3699 Orchidaceae: *Pleurothallis hitchcockii* Ames
3700 Cyclanthaceae

3701 Araceae: *Spathiphyllum maguirei* G.S. Bunting
3702 Fungi-Basidiomycete
3703 Cyperaceae: *Cyperus laxus* Lam. s.l.
3704 Fabaceae-Caesal.: *Chamaecrista*
3705 Cyperaceae: *Cyperus ligularis* L.
3706 Annonaceae: *Duguetia* sp.
3707 Melastomataceae: *Tococa subciliata* (DC.) Triana
3708 a Cyclanthaceae: *Evodianthus funifer* (Poit.) Lindm.
3708 b Flacourtiaceae
3709 Lauraceae: *Persea* sp.
3710 Fabaceae-Caesal.: *Eperua falcata* Aubl.
3711 Orchidaceae: *Prosthechea vespa* (Vell.) W.E. Higgins
3712 Bignoniaceae: *Cydista aequinoctialis* (L.) Miers
3713 Fabaceae-Papil.: *Dioclea*
3714 Fabaceae-Caesal.: *Eperua jenmanii* Oliv.
3715 Clusiaceae: *Clusia cuneata* Benth.
3716 Rubiaceae: *Psychotria mapourioides* DC.
3717 Myrtaceae: *Eugenia* cf. *florida* DC.
3718 Malpighiaceae: *Heteropterys cristata* Benth.
3719 Violaceae: *Rinorea pubiflora* (Benth.) Sprague & Sandwith var. *grandifolia* (Eichler) Hekking
3720 Fabaceae-Caesal.
3721 Fabaceae-Caesal.: *Dalbergia*
3722 Rubiaceae: *Psychotria capitata* Ruiz & Pav.
3723 Fabaceae-Papil.: *Machaerium quinatum* (Aubl.) Sandwith
3724 Myrtaceae: *Marlierea cuprea* Amshoff
3725 Fabaceae-Papil.: *Dalbergia riedelii* (Benth.) Sandwith
3726 Fabaceae-Papil.: *Swartzia sprucei* Benth. var. *tessellata* R.S. Cowan
3727 Fabaceae-Papil.
3728 Araceae: *Philodendron muricatum* Willd. ex Schott
3729 Malpighiaceae: *Byrsonima gymnocalycina* A. Juss.
3730 Arecaceae: *Desmoncus polyacanthos* Mart.
3731 Euphorbiaceae: *Amanoa guianensis* Aubl.
3732 Melastomataceae: *Mouriri acutiflora* Naudin
3733 Fabaceae-Mimos.: *Zygia cataractae* (Kunth) L. Rico
3734 Myrtaceae: *Myrciaria vismeifolia* (Benth.) O. Berg
3735 Piperaceae: *Piper avellanum* (Miq.) C. DC.
3736 Flacourtiaceae: *Homalium guianense* (Aubl.) Oken
3737 Fabaceae-Mimos.: *Mimosa myriadenia* (Benth.) Benth.
3738 Cyperaceae: *Scleria flagellum-nigrorum* P.J. Bergius
3739 Chrysobalanaceae
3740 Fabaceae-Mimos.: *Pentaclethra macroloba* (Willd.) Kuntze
3741 Fabaceae-Papil.: *Swartzia*
3742 Loranthaceae: *Struthanthus concinnus* Mart.
3743 Lecythidaceae: *Couratari riparia* Sandwith
3744 Vochysiaceae: *Vochysia tetraphylla* (G. Mey.) DC.
3745 Gentianaceae: *Coutoubea ramosa* Aubl.
3746 Orchidaceae: *Rodriguezia lanceolata* Ruiz & Pav.
3747 Lygodiaceae: *Lygodium volubile* Sw.
3748 Smilacaceae: *Smilax* sp.
3749 Lichen
3750 Rubiaceae: *Genipa spruceana* Steyerm.
3751 Hippocrateaceae: *Tontelea attenuata* Miers s.l.
3752 Asclepiadaceae
3753 Rubiaceae: *Psychotria capitata* Ruiz & Pav.
3754 Olacaceae: *Heisteria cauliflora* Sm.
3755 Melastomataceae: *Henriettea stellaris* O. Berg ex Triana
3756 Dioscoreaceae: *Dioscorea*
3757 Polygalaceae
3758 Fabaceae-Caesal.: *Paloue riparia* Pulle
3759 Apocynaceae: *Prestonia* cf. *lindleyana* Woodson ex Gleason & A.C. Sm.
3760 Orchidaceae: *Epidendrum compressum* Griseb.
3761 Orchidaceae: *Maxillaria camaridii* Rchb. f.
3762 Araceae: *Anthurium obtusum* (Engl.) Grayum

3763 Loganiaceae: *Strychnos guianensis* (Aubl.) Mart.
3764 Convolvulaceae: *Maripa paniculata* Barb. Rodr.
3765 Cecropiaceae: *Coussapoa microcephala* Trécul
3766 Smilacaceae: *Smilax schomburgkiana* Kunth
3767 Arecaceae: *Bactris hirta* Mart.
3768 Aspleniaceae: *Asplenium serratum* L.
3769 Piperaceae: *Peperomia elongata* Kunth
3770 Cyperaceae: *Becquerelia cymosa* Brongn. ssp. *merkeliana* (Nees) T. Koyama
3771 Marcgraviaceae: *Norantea guianensis* Aubl.
3772 Chrysobalanaceae
3773 Chrysobalanaceae: *Couepia parillo* DC.
3774 Annonaceae: *Annona symphyocarpa* Sandwith
3775 Cyclanthaceae: *Asplundia fanshawei* (Maguire) Harling
3776 Bignoniaceae: *Distictella magnoliifolia* (Kunth) Sandwith
3777 Moraceae: *Sorocea pubivena* Hemsl. ssp. *oligotricha* (Akkermans & C.C. Berg) C.C. Berg
3778 Bignoniaceae: *Memora schomburgkii* (DC.) Miers
3779 Rubiaceae: *Sipanea micrantha* Sandwith
3780 Rubiaceae: *Psychotria* cf. *barbiflora* DC.
3781 Polypodiaceae: *Polypodium caceresii* Sodiro
3782 Piperaceae: *Piper avellanum* (Miq.) C. DC.
3783 Melastomataceae: *Clidemia hirta* (L.) D. Don var. *elegans* (Aubl.) Griseb.
3784 Rubiaceae: *Geophila*
3785 Rubiaceae: *Psychotria barbiflora* DC.
3786 Rubiaceae: *Uncaria guianensis* (Aubl.) J.F. Gmel.
3787 Araceae: *Spathiphyllum maguirei* G.S. Bunting
3788 Solanaceae: *Solanum jamaicense* Mill.
3789 Clusiaceae: *Clusia panapanari* (Aubl.) Choisy
3790 Rubiaceae: *Borreria assurgens* (Ruiz & Pav.) Griseb.
3791 Melastomataceae: *Nepsera aquatica* (Aubl.) Naudin
3792 Polypodiaceae: *Microgramma reptans* (Cav.) A.R. Sm.
3793 Cyatheaceae: *Cyathea andina* (H. Karst.) Domin
3794 Melastomataceae: *Clidemia bullosa* DC.
3795 Fabaceae-Papil.: *Dioclea*
3796 Orchidaceae: *Stelis* sp.
3797 Rubiaceae: *Posoqueria longiflora* Aubl.
3798 Euphorbiaceae: *Croton cuneatus* Klotzsch
3799 Fabaceae-Caesal.: *Eperua*
3800 Ochnaceae: *Elvasia essequibensis* Engl.
3801 Marantaceae: *Calathea cyclophora* Baker
3802 Rubiaceae: *Psychotria bahiensis* DC.
3803 Melastomataceae: *Clidemia japurensis* DC.
3804 Rapateaceae: *Spathanthus unilateralis* (Rudge) Desv.
3805 Rapateaceae: *Rapatea paludosa* Aubl.
3806 Cyperaceae: *Bisboeckelera microcephala* (Boeck.) T. Koyama
3807 Cyperaceae: *Mapania insignis* Sandwith
3808 Cyperaceae: *Diplasia karatifolia* Rich.
3809 Smilacaceae: *Smilax* sp.
3810 Gesneriaceae: *Paradrymonia barbata* Feuillet & L.E. Skog
3811 Poaceae: *Pariana campestris* Aubl.
3812 Hymenophyllaceae: *Trichomanes pinnatum* Hedw.
3813 Melastomataceae: *Miconia bracteata* (DC.) Triana
3814 Piperaceae: *Piper wachenheimii* Trel.
3815 Piperaceae: *Piper hostmannianum* (Miq.) C. DC.
3816 Piperaceae: *Piper divaricatum* G. Mey.
3817 Melastomataceae: *Aciotis indecora* (Bonpl.) Triana
3818 Melastomataceae: *Nepsera aquatica* (Aubl.) Naudin
3819 Rubiaceae: *Borreria assurgens* (Ruiz & Pav.) Griseb.
3820 Fabaceae-Papil.: *Desmodium*
3821 Clusiaceae: *Clusia hammeliana* Pipoly
3822 Melastomataceae: *Macrocentrum* ? *repens* (Gleason) Wurdack

3823 Gesneriaceae: *Tylopsacas cuneatum* (Gleason) Leeuwenb.
3824 Rubiaceae: *Psychotria guadalupensis* (DC.) R.A. Howard
3825 Rubiaceae: *Didymochlamys connellii* N.E. Br.
3826 Rubiaceae: *Patima guianensis* Aubl.
3827 Hymenophyllaceae: *Trichomanes crispum* L.
3828 Ochnaceae: *Sauvagesia elata* Benth.
3829 Bromeliaceae: *Navia rupestris* (Gleason) Sandwith
3830 Bromeliaceae: *Aechmea mertensii* (G. Mey.) Schult. & Schult. f.
3831 Gentianaceae: *Chelonanthus longistylus* (J.G.M. Pers. & Maas) Struwe & V.A. Albert
3832 Apocynaceae
3833 Eriocaulaceae: *Tonina fluviatilis* Aubl.
3834 Dennstaedtiaceae: *Lindsaea divaricata* Klotzsch
3835 Adiantaceae: *Pityrogramma calomelanos* (L.) Link
3836 Marantaceae: *Ischnosiphon foliosus* Gleason
3837 Bignoniaceae: *Schlegelia spruceana* K. Schum.
3838 Dryopteridaceae: *Cyclodium meniscioides* (Willd.) C. Presl var. *meniscioides*
3839 Euphorbiaceae: *Mabea speciosa* Müll. Arg.
3840 Marattiaceae: *Danaea elliptica* Sm. subsp. *simplicifolia* (Rudge) Rolleri
3841 Cyperaceae: *Hypolytrum jenmanii* C.B. Clarke ssp. *serratifolium* (Uittien) T. Koyama
3842 Selaginellaceae: *Selaginella mazaruniense* Jenman
3843 Araceae: *Spathiphyllum maguirei* G.S. Bunting
3844 Cyclanthaceae: *Dicranopygium angustissimum* (Sandwith) Harling
3845 Rubiaceae: *Psychotria apoda* Steyerm.
3846 Orchidaceae: *Pleurothallis sclerophylla* Lindl.
3847 Solanaceae: *Solanum stramoniifolium* Jacq.
3848 Cyperaceae: *Bisboeckelera microcephala* (Boeck.) T. Koyama
3849 Cyperaceae: *Cyperus luzulae* (L.) Rottb. ex Retz.
3850 Poaceae: *Panicum pilosum* Sw.
3851 Gesneriaceae: *Besleria saxicola* C.V. Morton
3852 Melastomataceae: *Clidemia minutiflora* (Triana) Cogn.
3853 Rubiaceae: *Sipaneopsis* ?
3854 Verbenaceae: *Stachytarpheta cayennensis* (Rich.) Vahl
3855 Rubiaceae: *Borreria assurgens* (Ruiz & Pav.) Griseb.
3856 Rubiaceae: *Borreria densiflora* DC.
3857 Rubiaceae: *Borreria latifolia* (Aubl.) K. Schum.
3858 Dryopteridaceae: *Cyclodium meniscioides* (Willd.) C. Presl var. *meniscioides*
3859 Cyperaceae: *Hypolytrum jenmanii* C.B. Clarke ssp. *serratifolium* (Uittien) T. Koyama
3860 Gesneriaceae: *Nautilocalyx pictus* (Hook.) Sprague
3861 Gentianaceae: *Irlbachia*
3862 Annonaceae: *Annona sericea* Dunal
3863 Cyperaceae: *Cyperus odoratus* L.
3864 Cyperaceae: *Cyperus guianensis* (C.B. Clarke) Kük.
3865 Cyperaceae: *Calyptrocarya glomerulata* (Brongn.) Urb.
3866 Rubiaceae: *Psychotria cupularis* (Müll. Arg.) Standl.
3867 Thelypteridaceae: *Thelypteris opulenta* (Kaulf.) Fosberg
3868 a Cyperaceae: *Mapania maguireana* T. Koyama & Steyerm.
3868 b Cyperaceae: *Mapania insignis* Sandwith
3869 Rapateaceae: *Spathanthus unilateralis* (Rudge) Desv.
3870 Cyperaceae: *Hypolytrum longifolium* (Rich.) Nees ssp. *sylvaticum* (Poepp. & Kunth) T. Koyama
3871 Rubiaceae: *Sipanea*
3872 Melastomataceae: *Aciotis purpurascens* (Aubl.) Triana
3873 Melastomataceae: *Aciotis purpurascens* (Aubl.) Triana
3874 Melastomataceae: *Clidemia conglomerata* DC.
3875 Marantaceae
3876 Poaceae: *Panicum stoloniferum* Poir.
3877 Dryopteridaceae: *Cyclodium varians* (Fée) A.R. Sm.

3878 Trigoniaceae: *Trigonia laevis* Aubl. var. *microcarpa* (Sagot ex Warm.) Sagot
3879 Clusiaceae: *Clusia hammeliana* Pipoly
3880 Melastomataceae: *Miconia polita* Gleason
3881 Siparunaceae: *Siparuna decipiens* (Tul.) A. DC.
3882 Amaranthaceae
3883 Bryophyte
3884 Bryophyte
3885 Fungi-Ascomycete
3886 Eriocaulaceae: *Paepalanthus oyapockensis* Herzog
3887 Heliconiaceae: *Heliconia acuminata* Rich.
3888 Rubiaceae: *Coccocypselum hirsutum* Bartl. ex DC.
3889 Melastomataceae: *Bellucia grossularioides* (L.) Triana
3890 Rapateaceae: *Rapatea paludosa* Aubl.
3891 Loganiaceae: *Spigelia multispica* Steud.
3892 Begoniaceae: *Begonia humilis* Dryand.
3893 Melastomataceae: *Miconia ceramicarpa* (DC.) Cogn.
3894 Fabaceae-Mimos.: *Pentaclethra macroloba* (Willd.) Kuntze
3895 Fabaceae-Caesal.: *Elizabetha fanshawei* R.S. Cowan
3896 Melastomataceae: *Miconia ciliata* (Rich.) DC.
3897 Fabaceae-Mimos.: *Calliandra surinamensis* Benth.
3898 Pteridophyte
3899 Bryophyte
3900 Melastomataceae: *Clidemia conglomerata* DC.
3901 Melastomataceae: *Clidemia* aff. *granvillei* Wurdack
3902 Melastomataceae: *Clidemia conglomerata* DC.
3903 Bromeliaceae: *Catopsis berteroniana* (Schult. & Schult. f.) Mez
3904 Melastomataceae: *Clidemia heptamera* Wurdack
3905 Rubiaceae: *Psychotria mazaruniensis* Standl.
3906 Hymenophyllaceae: *Trichomanes elegans* Rich.
3907 Clusiaceae: *Clusia grandiflora* Splitg.
3908 Convolvulaceae: *Maripa scandens* Aubl.
3909 Sapindaceae: *Paullinia rufescens* Rich. ex Juss.
3910 Piperaceae: *Piper avellanum* (Miq.) C. DC.
3911 Araceae: *Philodendron* cf. *ornatum* Schott
3912 Orchidaceae: *Pleurothallis maguirei* Luer
3913 Orchidaceae: *Octomeria* sp.
3914 Campanulaceae: *Centropogon cornutus* (L.) Druce
3915 Verbenaceae: *Stachytarpheta cayennensis* (Rich.) Vahl
3916 Piperaceae: *Piper anonifolium* (Kunth) C. DC. var. *parkerianum* (C. DC.) Steyerm.
3917 Gesneriaceae: *Paradrymonia ciliosa* (Mart.) Wiehler
3918 Araceae: *Anthurium* ? *thrinax* Madison
3919 Gesneriaceae: *Nautilocalyx pictus* (Hook.) Sprague
3920 Rubiaceae: *Psychotria crocochlamys* Sandwith
3921 Rubiaceae: *Psychotria potaroensis* (Sandwith) Steyerm.
3922 Orchidaceae: *Otostylis lepida* (Linden & Rchb. f.) Schltr.
3923 Orchidaceae: *Epidendrum carpophorum* Barb. Rodr.
3924 Rubiaceae: *Psychotria sandwithiana* (Steyerm.) Steyerm.
3925 Gentianaceae: *Tachia schomburgkiana* Benth.
3926 Solanaceae: *Solanum leucocarpon* Dunal
3927 Melastomataceae: *Adelobotrys adscendens* (Sw.) Triana
3928 Clusiaceae: *Clusia cuneata* Benth.
3929 Ericaceae: *Sphyrospermum cordifolium* Benth.
3930 Cyperaceae: *Rhynchospora pubera* (Vahl) Boeck. ssp. *pubera*
3931 Melastomataceae: *Miconia dodecandra* Cogn.
3932 Rapateaceae: *Rapatea membranacea* Maguire
3933 Clusiaceae: *Vismia latifolia* (Aubl.) Choisy
3934 Rapateaceae: *Rapatea ulei* Pilg.

3935 Rubiaceae
3936 Melastomataceae: *Miconia racemosa* (Aubl.) DC.
3937 Piperaceae: *Peperomia pellucida* (L.) Kunth
3938 Piperaceae: *Piper peltatum* L.
3939 Fabaceae-Mimos.: *Inga heterophylla* Willd.
3940 Bromeliaceae: *Vriesea splendens* (Brongn.) Lem.
3941 Flacourtiaceae: *Ryania speciosa* Vahl
3942 Verbenaceae: *Amasonia campestris* (Aubl.) Moldenke
3943 Orchidaceae: *Elleanthus graminifolius* (Barb. Rodr.) Lojtnant
3944 a Cucurbitaceae: *Gurania* sp.
3944 b Cucurbitaceae
3945 Melastomataceae: *Adelobotrys adscendens* (Sw.) Triana
3946 Clusiaceae: *Tovomita atropurpurea* Steyerm.
3947 Araceae: *Philodendron insigne* Schott
3948 Cyclanthaceae: *Stelestylis stylaris* (Gleason) Harling
3949 Bromeliaceae: *Mezobromelia pleiosticha* (Griseb.) Utley & H. Luther
3950 Lentibulariaceae: *Utricularia humboldtii* R.H. Schomb.
3951 Gesneriaceae: *Nautilocalyx cordatus* (Gleason) L.E. Skog
3952 Apocynaceae: *Mandevilla scabra* (Hoffmanns. ex Roem. & Schult.) K. Schum.
3953 Clusiaceae: *Clusia fockeana* Miq.
3954 Sapindaceae: *Serjania membranacea* Splitg.
3955 Melastomataceae: *Graffenrieda caryophyllea* Triana
3956 Melastomataceae: *Macrocentrum repens* (Gleason) Wurdack
3957 Ericaceae
3958 Melastomataceae: *Phainantha laxiflora* (Triana) Gleason
3959 Araceae: *Anthurium expansum* Gleason
3960 Polypodiaceae: *Polypodium triseriale* Sw.
3961 Smilacaceae: *Smilax schomburgkiana* Kunth
3962 Lentibulariaceae: *Utricularia pubescens* Sm.
3963 Melastomataceae: *Graffenrieda caudata* Wurdack
3964 Orchidaceae: *Maxillaria bolivarensis* C. Schweinf.
3965 Onagraceae: *Ludwigia hyssopifolia* (G. Don) Exell
3966 Gesneriaceae: *Nautilocalyx cordatus* (Gleason) L.E. Skog
3967 Rubiaceae: *Alibertia*
3968 Cyperaceae: *Scleria latifolia* Sw.
3969 Cyperaceae: *Mapania insignis* Sandwith
3970 Commelinaceae: *Tripogandra serrulata* (Vahl) Handlos
3971 Polyporaceae: *Pycnoporus* cf. *sanguineus* (L.) Murrill
3972 NO RECORD
3973 Asteraceae: *Mikania banisteriae* DC.
3974 Piperaceae: *Piper hispidum* Sw.
3975 Cyclanthaceae: *Evodianthus funifer* (Poit.) Lindm.
3976 Araceae: *Anthurium expansum* Gleason
3977 Ericaceae
3978 Cyperaceae: *Rhynchocladium steyermarkii* (T. Koyama) T. Koyama
3979 Myrtaceae: *Marlierea schomburgkiana* O. Berg
3980 Rubiaceae: *Psychotria platypoda* DC.
3981 Arecaceae
3982 Rubiaceae: *Psychotria bostrychothyrsus* Sandwith
3983 Orchidaceae: *Maxillaria* sp.
3984 Gesneriaceae: *Columnea guianensis* C.V. Morton
3985 Phytolaccaceae: *Microtea debilis* Sw.
3986 Bryophyte
3987 Fungi
3988 Fungi
3989 Lichen
3990 Adiantaceae: *Pterozonium scopulinum* Lellinger
3991 Cucurbitaceae: *Gurania* sp.
3992 Lichen
3993 Rubiaceae
3994 Marantaceae: *Monotagma ovatum* Hagberg
3995 Marantaceae: *Calathea cyclophora* Baker
3996 Araceae: *Anthurium* ? *thrinax* Madison
3997 Orchidaceae: *Cheiradenia cuspidata* Lindl.
3998 Apocynaceae: *Tabernaemontana cerea* (Woodson) Leeuwenb.

3999 Clusiaceae: *Clusia schomburgkiana* (Planch. & Triana) Benth. ex Engl.
4000 Passifloraceae: *Passiflora garckei* Mast.
4001 Indet.
4002 Lecythidaceae: *Eschweilera* cf. *wachenheimii* (Benoist) Sandwith
4003 Sapotaceae
4004 Solanaceae: *Solanum*
4005 Solanaceae: *Solanum coriaceum* Dunal
4006 Rapateaceae: *Spathanthus unilateralis* (Rudge) Desv.
4007 Thurniaceae: *Thurnia sphaerocephala* (Rudge) Hook. f.
4008 Araceae: *Philodendron ecordatum* Schott
4009 Solanaceae: *Lycianthes* sp.
4010 Bromeliaceae: *Aechmea mertensii* (G. Mey.) Schult. & Schult. f.
4011 Blechnaceae: *Blechnum serrulatum* Rich.
4012 Clusiaceae: *Clusia panapanari* (Aubl.) Choisy
4013 Melastomataceae: *Miconia dodecandra* Cogn.
4014 Moraceae: *Ficus guianensis* Desv. ex Ham.
4015 Viscaceae: *Phoradendron crassifolium* (Pohl ex DC.) Eichler
4016 Convolvulaceae: *Maripa* cf. *paniculata* Barb. Rodr.
4017 Fabaceae-Papil.: *Amorpha*
4018 Campanulaceae: *Centropogon cornutus* (L.) Druce
4019 Cecropiaceae: *Coussapoa microcephala* Trécul
4020 Solanaceae: *Solanum leucocarpon* Dunal
4021 Ericaceae: *Sphyrospermum cordifolium* Benth.
4022 Fabaceae-Papil.: *Aeschynomene ? sensitiva* Sw.
4023 Araceae: *Philodendron callosum* K. Krause
4024 Asteraceae: *Mikania psilostachya* DC.
4025 Gesneriaceae: *Alloplectus savannarum* C.V. Morton
4026 Indet.
4027 Melastomataceae: *Clidemia minutiflora* (Triana) Cogn.
4028 Myristicaceae: *Compsoneura ulei* Warb.
4029 Piperaceae
4030 Araceae: *Anthurium scandens* (Aubl.) Engl.
4031 Orchidaceae: *Stelis argentata* Lindl.
4032 Piperaceae: *Peperomia rotundifolia* (L.) Kunth
4033 Orchidaceae: *Maxillaria* aff. *discolor* (Lodd. ex Lindl.) Rchb. f.
4034 Araceae: *Stenospermation ammiticum* G.S. Bunting
4035 Rubiaceae: *Rudgea cornifolia* (Humb. & Bonpl. ex Roem. & Schult.) Standl.
4036 Polypodiaceae: *Microgramma lycopodioides* (L.) Copel.
4037 Orchidaceae: *Prosthechea pygmaea* (Hook.) W.E. Higgins)
4038 Orchidaceae: Maxillaria superflua Rchb. f.
4039 Orchidaceae: *Stelis* sp.
4040 Orchidaceae: *Palmorchis guianensis* (Schltr.) C. Schweinf. & Correll
4041 Orchidaceae: *Maxillaria camaridii* Rchb. f.
4042 Orchidaceae: *Dichaea* sp.
4043 Orchidaceae
4044 Melastomataceae: *Clidemia japurensis* DC.
4045 Rubiaceae: *Sabicea villosa* Willd. ex Roem. & Schult.
4046 Clusiaceae: *Vismia latifolia* (Aubl.) Choisy
4047 Apocynaceae: *Allamanda*
4048 Solanaceae: *Solanum leucocarpon* Dunal
4049 Clusiaceae: *Vismia sessilifolia* (Aubl.) Choisy
4050 Melastomataceae: *Clidemia novemnervia* (DC.) Triana
4051 Melastomataceae: *Myriaspora egensis* DC.
4052 Rubiaceae: *Borreria latifolia* (Aubl.) K. Schum.
4053 Fabaceae-Papil.: *Desmodium*
4054 Boraginaceae: *Cordia schomburgkii* DC.
4055 Rubiaceae: *Sipanea pratensis* Aubl.
4056 Passifloraceae: *Passiflora coccinea* Aubl.
4057 Clusiaceae: *Clusia grandiflora* Splitg.
4058 Melastomataceae: *Miconia racemosa* (Aubl.) DC.

4059 Malvaceae: *Hibiscus verbasciformis* Klotzsch ex Hochr.
4060 Fabaceae-Mimos.: *Mimosa myriadenia* (Benth.) Benth.
4061 Passifloraceae: *Passiflora cirrhiflora* Juss.
4062 Sapindaceae: *Cupania scrobiculata* Rich.
4063 Asteraceae: *Wulffia baccata* (L.) Kuntze
4064 Malpighiaceae: *Byrsonima spicata* (Cav.) DC.
4065 Myrtaceae: *Myrcia sylvatica* (G. Mey.) DC.
4066 Humiriaceae: *Humiria balsamifera* Aubl. var. *balsamifera*
4067 Rubiaceae: *Borreria capitata* (RUiz & Pav.) DC.
4068 Asclepiadaceae: *Blepharodon nitidus* (Vell.) J.F. Macbr.
4069 Melastomataceae: *Comolia microphylla* Benth.
4070 Melastomataceae: *Miconia myriantha* Benth.
4071 Solanaceae: *Solanum subinerme* Jacq.
4072 Melastomataceae: *Miconia prasina* (Sw.) DC.
4073 Fabaceae-Mimos.: *Macrosamanea pubiramea* (Steud.) Barneby & J.W. Grimes
4074 Apocynaceae: *Odontadenia geminata* (Hoffmanns. ex Roem. & Schult.) Müll. Arg.
4075 Apocynaceae: *Mandevilla scabra* (Hoffmanns. ex Roem. & Schult.) K. Schum.
4076 Cyperaceae: *Scleria latifolia* Sw.
4077 Melastomataceae: *Miconia rubiginosa* (Bonpl.) DC.
4078 Lamiaceae
4079 Celastraceae: *Maytenus*
4080 Asteraceae: *Chromolaena odorata* (L.) R.M. King & H. Rob.
4081 Clusiaceae: *Clusia columnaris* Engl.
4082 Siparunaceae: *Siparuna guianensis* Aubl.
4083 Clusiaceae: *Vismia japurensis* Reichardt
4084 Melastomataceae: *Miconia ciliata* (Rich.) DC.
4085 Euphorbiaceae: *Maprounea guianensis* Aubl.
4086 Euphorbiaceae: *Amanoa guianensis* Aubl.
4087 Chrysobalanaceae: *Chrysobalanus* cf. *icaco* L.
4088 Myrtaceae: *Eugenia pseudopsidium* Jacq.
4089 Gentianaceae: *Chelonanthus purpurascens* (Aubl.) Struwe, S. Nilsson & V.A. Albert
4090 Dioscoreaceae: *Dioscorea* sp.
4091 Passifloraceae: *Passiflora auriculata* Kunth
4092 Cyperaceae: *Scleria secans* (L.) Urb.
4093 Rubiaceae: *Isertia parviflora* Vahl
4094 Araceae
4095 Cyperaceae: *Diplacrum guianense* (Nees) T. Koyama
4096 Amaranthaceae: *Cyathula prostrata* (L.) Blume
4097 Melastomataceae: *Rhynchanthera dichotoma* (Desr.) DC.
4098 Onagraceae: *Ludwigia nervosa* (Poir.) H. Hara
4099 Rubiaceae: *Palicourea croceoides* Ham.
4100 Apiaceae: *Hydrocotyle umbellata* L.
4101 Poaceae: *Panicum parvifolium* Lam.
4102 Xyridaceae: *Xyris laxifolia* Mart. var. *laxifolia*
4103 Melastomataceae: *Miconia stephananthera* Ule
4104 Arecaceae: *Desmoncus polyacanthos* Mart.
4105 Melastomataceae: *Nepsera aquatica* (Aubl.) Naudin
4106 Lauraceae: *Ocotea*
4107 Rubiaceae: *Coccocypselum hirsutum* Bartl. ex DC.
4108 Bignoniaceae
4109 Asteraceae: *Mikania trinitaria* DC.
4110 Heliconiaceae: *Heliconia psittacorum* L. f.
4111 Dilleniaceae: *Tetracera asperula* Miq.
4112 Vitaceae: *Cissus erosa* Rich.
4113 Fabaceae-Mimos.: *Inga thibaudiana* DC.
4114 Malpighiaceae: *Byrsonima crassifolia* (L.) Kunth
4115 Melastomataceae: *Comolia villosa* (Aubl.) Triana var. *B*
4116 Passifloraceae: *Passiflora auriculata* Kunth

4117 Connaraceae: *Connarus lambertii* (DC.) Sagot
4118 Fabaceae-Papil.
4119 Humiriaceae: *Humiria balsamifera* Aubl. var. *balsamifera*
4120 Dilleniaceae: *Davilla kunthii* A. St.-Hil.
4121 Boraginaceae: *Cordia curassavica* (Jacq.) Roem. & Schult.
4122 Sapindaceae: *Matayba opaca* Radlk.
4123 Fabaceae?
4124 Annonaceae: *Rollinia exsucca* (DC. ex Dunal) A. DC.
4125 Hippocrateaceae: *Prionostemma aspera* (Lam.) Miers
4126 Poaceae: *Panicum rudgei* Roem. & Schult.
4127 Piperaceae: *Piper hostmannianum* (Miq.) C. DC.
4128 Fabaceae-Caesal.: *Cassia*
4129 Heliconiaceae: *Heliconia acuminata* Rich.
4130 Orchidaceae: *Cleistes rosea* Lindl.
4131 Chrysobalanaceae: *Licania affinis* Fritsch
4132 Fabaceae-Caesal.: *Bauhinia*
4133 Loranthaceae: *Phthirusa stelis* (L.) Kuijt
4134 Melastomataceae: *Henriettea multiflora* Naudin
4135 Chrysobalanaceae: *Hirtella paniculata* Sw.
4136 Aquifoliaceae: *Ilex martiniana* D. Don
4137 Gesneriaceae
4138 Ebenaceae: *Diospyros*
4139 Bombacaceae
4140 Euphorbiaceae
4141 Marcgraviaceae: *Marcgravia purpurea* I.W. Bailey
4142 Asclepiadaceae
4143 Polypodiaceae: *Microgramma reptans* (Cav.) A.R. Sm.
4144 Orchidaceae: *Rodriguezia lanceolata* Ruiz & Pav.
4145 Connaraceae
4146 Bonnetiaceae: *Archytaea triflora* Mart.
4147 Cecropiaceae: *Coussapoa microcephala* Trécul
4148 Fabaceae-Papil.: *Dalbergia ecastaphyllum* (P. Browne ex L.) Taub.
4149 Fabaceae-Mimos.: *Hydrochorea gonggrijpii* (Kleinhoonte) Barneby & J.W. Grimes
4150 Gentianaceae: *Chelonanthus longistylus* (J.G.M. Pers. & Maas) Struwe & V.A. Albert
4151 Xyridaceae: *Xyris laxifolia* Mart. var. *laxifolia*
4152 Orchidaceae: *Habenaria fastor* Warm.
4153 Cyperaceae: *Fuirena umbellata* Rottb.
4154 Melastomataceae: *Rhynchanthera dichotoma* (Desr.) DC.
4155 Onagraceae: *Ludwigia nervosa* (Poir.) H. Hara
4156 Cyperaceae: *Eleocharis interstincta* (Vahl) Roem. & Schult.
4157 Cyperaceae: *Scleria microcarpa* Nees ex Kunth
4158 Cyperaceae: *Eleocharis plicarhachis* (Griseb.) Svenson
4159 Menyanthaceae: *Nymphoides indica* (L.) Kuntze
4160 Onagraceae: *Ludwigia torulosa* (Arn.) H. Hara
4161 Lentibulariaceae: *Utricularia foliosa* L.
4162 Lentibulariaceae: *Utricularia myriocista* A. St.-Hil. & Girard
4163 Alismataceae: *Echinodorus*
4164 Apocynaceae: *Odontadenia nitida* (Vahl) Müll. Arg.
4165 Clusiaceae: *Clusia nemorosa* G. Mey.
4166 Cyperaceae: *Rhynchospora corymbosa* (L.) Britton
4167 Hydrocharitaceae: *Elodea granatensis* Bonpl.
4168 Heliconiaceae: *Heliconia psittacorum* L. f.
4169 Cactaceae: *Epiphyllum phyllanthus* (L.) Haw. var. *phyllanthus*
4170 Cactaceae: *Rhipsalis baccifera* (J.S. Muell.) Stearn
4171 Loranthaceae: *Struthanthus* sp.
4172 Verbenaceae: *Lippia betulifolia* Kunth
4173 Ophioglossaceae: *Ophioglossum nudicaule* L. f.
4174 Melastomataceae: *Miconia ceramicarpa* (DC.) Cogn.
4175 Rubiaceae: *Gonzalagunia bunchosioides* Standl.

4176 Erythroxylaceae: *Erythroxylum macrophyllum* Cav.
4177 a Rubiaceae
4177 b Rubiaceae: *Psychotria acuminata* Benth.
4178 Piperaceae: *Piper pseudoglabrescens* Trel. & Yunck.
4179 Costaceae: *Costus congestiflorus* Rich. ex Gagnep.
4180 a Euphorbiaceae: *Drypetes fanshawei* Sandwith
4180 b Costaceae: *Costus congestiflorus* Rich. ex Gagnep.
4181 Bignoniaceae: *Schlegelia spruceana* K. Schum.
4182 Gesneriaceae: *Paradrymonia maculata* (Hook. f.) Wiehler
4183 Annonaceae: *Anaxagorea dolichocarpa* Sprague & Sandwith
4184 Poaceae: *Olyra latifolia* L.
4185 Costaceae: *Costus scaber* Ruiz & Pav.
4186 Melastomataceae: *Clidemia dentata* D. Don
4187 Araceae: *Spathiphyllum maguirei* G.S. Bunting
4188 Melastomataceae: *Miconia lateriflora* Cogn.
4189 Rubiaceae: *Sipanea biflora* (L. f.) Cham. & Schltdl.
4190 Piperaceae: *Piper anonifolium* (Kunth) C. DC.
4191 Rubiaceae: *Palicourea croceoides* Ham.
4192 Heliconiaceae: *Heliconia acuminata* Rich.
4193 Rubiaceae: *Notopleura uliginosa* (Sw.) Bremek.
4193 a Euphorbiaceae: *Pausandra martinii* Baill.
4194 Passifloraceae: *Passiflora foetida* L. var. *hispida* (DC.) Killip
4195 Piperaceae: *Piper arboreum* Aubl.
4196 Melastomataceae: *Miconia bubalina* (D. Don) Naudin
4197 Lecythidaceae: *Eschweilera*
4198 Rubiaceae: *Uncaria guianensis* (Aubl.) J.F. Gmel.
4199 Quiinaceae
4200 Melastomataceae: *Miconia plukenetii* Naudin
4201 Marantaceae: *Ischnosiphon puberulus* Loes. var. *scaber* (Petersen) L. Andersson
4202 Euphorbiaceae: *Pausandra martinii* Baill.
4203 Annonaceae: *Rollinia exsucca* (DC. ex Dunal) A. DC.
4204 Melastomataceae: *Miconia racemosa* (Aubl.) DC.
4205 Araceae: *Xanthosoma jacquinii* Schott (*Xanthosoma undipes* p.p.; *X. sagittifolium* p.p.)
4206 Dryopteridaceae: *Polybotrya caudata* Kunze
4207 Annonaceae: *Duguetia pauciflora* Rusby
4208 Violaceae: *Rinorea* sp.
4209 Fabaceae-Caesal.: *Brownea coccinea* Jacq.
4210 Rubiaceae: *Psychotria apoda* Steyerm.
4211 Passifloraceae: *Passiflora cirrhiflora* Juss.
4212 Rhamnaceae
4213 Siparunaceae: *Siparuna guianensis* Aubl.
4214 Clusiaceae: *Vismia macrophylla* Kunth
4215 Lycopodiaceae: *Lycopodiella cernua* (L.) Pic. Serm.
4216 Melastomataceae: *Leandra rufescens* (DC.) Cogn.
4217 Rubiaceae: *Psychotria erecta* (Aubl.) Standl. & Steyerm.
4218 Melastomataceae: *Myriaspora egensis* DC.
4219 Rhizophoraceae: *Cassipourea guianensis* Aubl.
4220 Boraginaceae: *Cordia schomburgkii* DC.
4221 Polyporaceae
4222 Haemodoraceae: *Xiphidium caeruleum* Aubl.
4223 Rubiaceae: *Psychotria racemosa* Rich.
4224 Thelypteridaceae: *Thelypteris opulenta* (Kaulf.) Fosberg
4225 Cyatheaceae: *Cyathea surinamensis* (Miq.) Domin
4226 Rubiaceae: *Psychotria platypoda* DC.
4227 Urticaceae: *Pilea pubescens* Liebm.
4228 Aspleniaceae: *Asplenium salicifolium* L.

4229 Piperaceae: *Peperomia serpens* (Sw.) Loudon
4230 Heliconiaceae: *Heliconia chartacea* Lane ex Barreiros
4231 Zingiberaceae: *Renealmia alpinia* (Rottb.) Maas
4232 Marantaceae: *Monotagma spicatum* (Aubl.) J.F. Macbr.
4233 Heliconiaceae: *Heliconia hirsuta* L. f.
4234 Liliaceae: *Hymenocallis tubiflora* Salisb.
4235 Marantaceae: *Calathea elliptica* (Roscoe) K. Schum.
4236 Araceae: *Spathiphyllum cuspidatum* Schott
4237 Gesneriaceae: *Codonanthe crassifolia* (H. Focke) C.V. Morton
4238 Costaceae: *Costus erythrothyrsus* Loes.
4239 Tectariaceae: *Tectaria incisa* Cav.
4240 Gesneriaceae: *Nautilocalyx mimuloides* (Benth.) C.V. Morton
4241 Piperaceae: *Piper divaricatum* G. Mey.
4242 Boraginaceae: *Cordia nodosa* Lam.
4243 Araceae: *Philodendron rudgeanum* Schott
4244 Rubiaceae: *Palicourea guianensis* Aubl.
4245 Simaroubaceae: *Picramnia guianensis* (Aubl.) Jans.-Jac.
4246 Heliconiaceae: *Heliconia bihai* (L.) L.
4247 Euphorbiaceae: *Drypetes fanshawei* Sandwith
4248 Violaceae: *Paypayrola longifolia* Tul.
4249 Poaceae: *Panicum stoloniferum* Poir.
4250 Myrsinaceae: *Ardisia guianensis* (Aubl.) Mez
4251 Clusiaceae?
4252 Xylariaceae: *Xylaria polymorpha* (Pers.) Grev.
4253 Passifloraceae: *Passiflora coccinea* Aubl.
4254 Piperaceae: *Piper peltatum* L.
4255 Melastomataceae: *Clidemia dentata* D. Don
4256 Melastomataceae: *Leandra divaricata* (Naudin) Cogn.
4257 Cyperaceae: *Scleria microcarpa* Nees ex Kunth
4257 b Orchidaceae: *Habenaria fastor* Warm.
4258 Arecaceae: *Bactris* cf. *simplicifrons* Mart.
4259 Smilacaceae: *Smilax schomburgkiana* Kunth
4260 Melastomataceae: *Henriettea succosa* (Aubl.) DC.
4261 Chrysobalanaceae: *Hirtella silicea* Griseb.
4262 Polypodiaceae: *Microgramma fuscopunctata* (Hook.) Vareschi
4263 Piperaceae: *Peperomia macrostachya* (Vahl) A. Dietr.
4264 Gesneriaceae: *Codonanthe calcarata* (Miq.) Hanst.
4265 Bromeliaceae: *Guzmania lingulata* (L.) Mez
4266 Melastomataceae: *Miconia bubalina* (D. Don) Naudin
4267 Fabaceae-Papil.: *Alexa*
4268 Arecaceae: *Geonoma maxima* (Poit.) Kunth
4269 Rubiaceae: *Coussarea leptoloba* (Spreng. ex Benth. & Hook. f.) Müll. Arg.
4270 Fabaceae-Caesal.: *Senna occidentalis* (L.) Link
4271 Poaceae
4272 Orchidaceae: *Eulophia alta* (L.) Fawc. & Rendle
4273 Poaceae: *Andropogon leucostachyus* Kunth
4274 Solanaceae: *Solanum subinerme* Jacq.
4275 Rubiaceae: *Borreria densiflora* DC.
4276 Piperaceae: *Piper hispidum* Sw.
4276 a Sapotaceae
4277 Onagraceae: *Ludwigia foliobracteolata* (Munz) H. Hara
4278 Melastomataceae: *Myriaspora egensis* DC.
4279 Menispermaceae: *Cissampelos andromorpha* DC.
4280 Melastomataceae: *Clidemia hirta* (L.) D. Don var. *elegans* (Aubl.) Griseb.
4281 Asteraceae: *Synedrella nodiflora* (L.) Gaertn.
4282 Poaceae: *Paspalum melanospermum* Desv. ex Poir.
4283 Cyperaceae: *Cyperus odoratus* L.
4284 Fabaceae-Papil.: *Mucuna urens* (L.) Medik.
4285 Fabaceae-Papil.: *Desmodium*
4285 a Fabaceae-Papil.: *Desmodium*
4286 Cyperaceae: *Cyperus luzulae* (L.) Rottb. ex Retz.

4287 Asteraceae: *Ageratum conyzoides* L.
4288 Euphorbiaceae: *Euphorbia hirta* L.
4289 Scrophulariaceae
4290 Euphorbiaceae: *Euphorbia thymifolia* L.
4291 Asteraceae: *Elephantopus mollis* Kunth
4292 Fabaceae-Caesal.: *Cassia*
4293 Onagraceae: *Ludwigia*
4294 Cyperaceae: *Scleria melaleuca* Rchb. ex Schltdl. & Cham.
4295 Cyperaceae: *Rhynchospora ciliata* (Vahl) Kük.
4296 Poaceae: *Sporobolus jacquemontii* Kunth
4297 Mendonciaceae: *Mendoncia hoffmannseggiana* Nees
4298 Phytolaccaceae: *Phytolacca rivinoides* Kunth & Bouché
4299 Piperaceae: *Piper arboreum* Aubl.
4300 Solanaceae: *Cestrum latifolium* Lam.
4301 Asteraceae: *Wulffia baccata* (L.) Kuntze
4302 Solanaceae: *Solanum subinerme* Jacq.
4303 Solanaceae: *Solanum stramoniifolium* Jacq.
4304 Solanaceae: *Solanum schlechtendalianum* Walp.
4305 Malpighiaceae: *Stigmaphyllon sinuatum* (DC.) A. Juss.
4306 Asteraceae: *Bidens cynapiifolia* Kunth
4307 Amaranthaceae: *Cyathula prostrata* (L.) Blume
4308 Commelinaceae: *Commelina rufipes* Seub. var. *glabrata* (D.R. Hunt) Faden & D.R. Hunt
4309 Araceae: *Monstera adansonii* Schott
4310 Mendonciaceae: *Mendoncia bivalvis* (L. f.) Merr.
4311 Apocynaceae: *Tabernaemontana heterophylla* Vahl
4312 Commelinaceae: *Gibasis geniculata* (Jacq.) Rohweder
4313 Heliconiaceae: *Heliconia spathocircinata* Aristeg.
4314 a Loranthaceae: *Phthirusa pyrifolia* (Kunth) Eichler
4314 b Piperaceae: *Piper pseudoglabrescens* Trel. & Yunck.
4315 Apocynaceae: *Tabernaemontana heterophylla* Vahl
4316 Smilacaceae: *Smilax schomburgkiana* Kunth
4317 Convolvulaceae: *Merremia macrocalyx* (Ruiz & Pav.) O'Donell
4318 Euphorbiaceae: *Dalechampia brownsbergensis* G.L. Webster & Armbr.
4319 Sapindaceae: *Cupania hirsuta* Radlk.
4320 Araceae: *Syngonium podophyllum* Schott
4321 Moraceae: *Ficus paraensis* (Miq.) Miq.
4322 Costaceae: *Costus guanaiensis* Rusby var. *macrostrobilus* (K. Schum.) Maas
4323 Araceae: *Monstera obliqua* Miq.
4324 Rubiaceae: *Sabicea glabrescens* Benth.
4325 Violaceae: *Rinorea pubiflora* (Benth.) Sprague & Sandwith
4326 Rafflesiaceae
4327 Passifloraceae: *Passiflora auriculata* Kunth
4328 Rutaceae: *Zanthoxylum rhoifolium* Lam.
4329 Annonaceae: *Anaxagorea dolichocarpa* Sprague & Sandwith
4330 Thelypteridaceae: *Thelypteris opulenta* (Kaulf.) Fosberg
4331 Fungi
4332 Piperaceae: *Piper glabrescens* (Miq.) C. DC.
4333 Convolvulaceae: *Jacquemontia tamnifolia* (L.) Griseb.
4334 Piperaceae: *Peperomia serpens* (Sw.) Loudon
4335 Rubiaceae: *Borreria latifolia* (Aubl.) K. Schum.
4336 Rubiaceae: *Geophila repens* (L.) I.M. Johnst.
4337 Bromeliaceae: *Guzmania lingulata* (L.) Mez
4337 a Bromeliaceae: *Vriesea heliconioides* (Kunth) Hook. ex Walp.
4338 Annonaceae: *Duguetia yeshidan* Sandwith
4339 Sapindaceae: *Cupania hirsuta* Radlk.
4340 Araceae: *Caladium bicolor* (Aiton) Vent.
4341 Araceae: *Philodendron* cf. *ornatum* Schott
4342 Mendonciaceae: *Mendoncia glabra* (Poepp. & Endl.) Nees
4343 Lecythidaceae: *Gustavia poeppigiana* O. Berg

4344 Passifloraceae: *Passiflora quadriglandulosa* Rodschied
4345 Zingiberaceae: *Renealmia guianensis* Maas
4346 Heliconiaceae: *Heliconia richardiana* Miq.
4347 Malpighiaceae: *Mascagnia macrodisca* (Triana & Planch.) Nied.
4348 Hernandiaceae
4349 Dioscoreaceae: *Dioscorea*
4350 Annonaceae: *Unonopsis glaucopetala* R.E. Fr.
4351 Myrsinaceae?
4352 Ulmaceae: *Trema micrantha* (L.) Blume
4353 Lacistemataceae: *Lacistema aggregatum* (P.J. Bergius) Rusby
4354 Myrsinaceae: *Ardisia guianensis* (Aubl.) Mez
4355 Annonaceae: *Duguetia pauciflora* Rusby
4356 Quiinaceae
4357 Lecythidaceae: *Eschweilera coriacea* (DC.) S.A. Mori
4358 Malvaceae: *Sida glomerata* Cav.
4359 Rubiaceae: *Geophila repens* (L.) I.M. Johnst.
4360 Poaceae: *Ichnanthus panicoides* P. Beauv.
4361 Begoniaceae: *Begonia humilis* Dryand.
4362 Bromeliaceae: *Aechmea bromeliifolia* (Rudge) Baker
4363 Flacourtiaceae
4364 Araceae: *Spathiphyllum cuspidatum* Schott
4365 Poaceae: *Lasiacis ligulata* Hitchc. & Chase
4366 Aristolochiaceae: *Aristolochia rugosa* Lam.
4367 Gentianaceae: *Voyria aurantiaca* Splitg.
4368 Piperaceae: *Peperomia rotundifolia* (L.) Kunth
4369 Lomariopsidaceae: *Elaphoglossum flaccidum* (Fée) T. Moore
4370 Piperaceae: *Peperomia obtusifolia* (L.) A. Dietr.
4371 Melastomataceae: *Clidemia conglomerata* DC.
4372 Triuridaceae: *Sciaphila albescens* Benth.
4373 Gentianaceae: *Voyria aphylla* (Jacq.) Pers.
4374 Adiantaceae: *Adiantum phyllitidis* J. Sm.
4375 Violaceae: *Paypayrola longifolia* Tul.
4376 Metaxyaceae: *Metaxya rostrata* (Kunth) C. Presl
4377 Orchidaceae: *Epidendrum rigidum* Jacq.
4378 Gentianaceae: *Voyria pittieri* (Standl.) L.O. Williams
4379 Gesneriaceae: *Besleria flavovirens* Nees & Mart.
4380 Burseraceae: *Protium tenuifolium* (Engl.) Engl. s.l.
4381 Hymenophyllaceae: *Trichomanes radicans* Sw. var. *radicans*
4382 Dennstaedtiaceae: *Saccoloma elegans* Kaulf.
4383 Tectariaceae: *Triplophyllum funestum* (Kunze) Holttum var. *funestum*
4384 Fabaceae-Papil.: *Mucuna urens* (L.) Medik.
4385 Melastomataceae: *Clidemia venosa* (Gleason) Wurdack
4386 Malpighiaceae: *Lophopterys euryptera* Sandwith
4387 Rubiaceae: *Psychotria ulviformis* Steyerm.
4388 Orchidaceae: *Dichaea* sp.
4389 Cucurbitaceae: *Cayaponia jenmanii* C. Jeffrey
4390 Dryopteridaceae: *Didymochlaena truncatula* (Sw.) J. Sm.
4391 Tectariaceae: *Tectaria trifoliata* (L.) Cav.
4392 Woodsiaceae: *Diplazium celtidifolium* Kunze
4393 Adiantaceae: *Adiantum latifolium* Lam.
4394 Marantaceae: *Calathea variegata* Linden ex Körn.
4395 Flacourtiaceae: *Casearia guianensis* (Aubl.) Urb.
4396 Bromeliaceae: *Aechmea mertensii* (G. Mey.) Schult. & Schult. f.
4396 a Bromeliaceae: *Aechmea nudicaulis* (L.) Griseb.
4397 Piperaceae: *Peperomia glabella* (Sw.) A. Dietr.

4398 Arecaceae: *Geonoma macrostachys* Mart.var. *poiteauana* (Kunth) A.J. Hend.
4399 Melastomataceae: *Henriettella caudata* Gleason
4400 Orchidaceae: *Stanhopea grandiflora* (Lodd.) Lindl.
4401 Aspleniaceae: *Asplenium serratum* L.
4402 Bromeliaceae: *Tillandsia monadelpha* (E. Morren) Baker
4403 Polypodiaceae: *Dicranoglossum desvauxii* (Klotzsch) Proctor
4404 Hymenophyllaceae: *Trichomanes diversifrons* (Bory) Mett. ex Sadeb.
4405 a Cyclanthaceae: *Asplundia* cf. *brachyphylla* Harling
4405 b Cyclanthaceae: *Asplundia glandulosa* (Gleason) Harling
4406 Bryophyte
4407 Lecythidaceae: *Eschweilera coriacea* (DC.) S.A. Mori
4408 Cucurbitaceae: *Gurania subumbellata* (Miq.) Cogn.
4409 Quiinaceae
4410 Onagraceae: *Ludwigia latifolia* (Benth.) H. Hara
4411 Rubiaceae: *Chimarrhis microcarpa* Standl.
4412 Marantaceae: *Calathea cyclophora* Baker
4413 Orchidaceae: *Cyclopogon olivaceus* (Rolfe) Schltr.
4414 Fabaceae
4415 Araceae: *Philodendron fragrantissimum* (Hook.) G. Don
4416 Polypodiaceae: *Campyloneurum repens* (Aubl.) C. Presl
4417 Boraginaceae: *Cordia nodosa* Lam.
4418 Gesneriaceae: *Nautilocalyx mimuloides* (Benth.) C.V. Morton
4419 Dioscoreaceae: *Dioscorea*
4420 Rubiaceae: *Faramea multiflora* A. Rich. ex DC.
4421 Quiinaceae
4422 Meliaceae
4423 Fabaceae-Papil.: *Mucuna urens* (L.) Medik.
4424 Arecaceae: *Bactris maraja* Mart.
4425 Fungi
4426 Balanophoraceae: *Helosis cayennensis* (Sw.) Spreng.
4427 Cyperaceae: *Diplasia karatifolia* Rich.
4428 Lomariopsidaceae: *Elaphoglossum glabellum* J. Sm.
4429 Piperaceae: *Piper hispidum* Sw.
4430 Fabaceae-Mimos.: *Inga bourgonii* (Aubl.) DC.
4431 Malpighiaceae: *Hiraea fagifolia* (DC.) A. Juss.
4432 Fabaceae-Mimos.: *Inga umbellifera* (Vahl) Steud. ex DC.
4433 Dioscoreaceae: *Dioscorea*
4434 Piperaceae: *Piper aequale* Vahl
4435 Bryophyte
4436 Adiantaceae: *Pityrogramma calomelanos* (L.) Link
4437 Fabaceae-Papil.: *Desmodium*
4438 Convolvulaceae: *Jacquemontia* aff. *pentantha* (Jacq.) G. Don
4439 Clusiaceae: *Clusia gaudichaudii* Choisy
4440 Clusiaceae: *Vismia macrophylla* Kunth
4441 Malvaceae: *Sida setosa* Mart. ex Colla
4442 Dryopteridaceae: *Cyclodium meniscioides* (Willd.) C. Presl var. *meniscioides*
4443 Rubiaceae: *Psychotria erecta* (Aubl.) Standl. & Steyerm.
4444 Fabaceae-Mimos.: *Inga nobilis* Willd.
4445 Caryocaraceae: *Caryocar* ?
4446 Melastomataceae: *Clidemia japurensis* DC.
4447 Rubiaceae: *Palicourea crocea* (Sw.) Roem. & Schult.
4448 Verbenaceae: *Petrea volubilis* L.
4449 Elaeocarpaceae
4450 Chrysobalanaceae: *Licania persaudii* Fanshawe & Maguire
4451 Melastomataceae: *Miconia serrulata* (DC.) Naudin
4452 Poaceae: *Eragrostis unioloides* (Retz.) Nees
4453 Boraginaceae
4454 Cucurbitaceae: *Gurania lobata* (L.) Pruski
4455 Hippocrateaceae: *Peritassa pruinosa* (Seem.) A.C. Sm.
4456 Passifloraceae: *Passiflora quadriglandulosa* Rodschied
4457 Marantaceae: *Ischnosiphon obliquus* (Rudge) Körn.
4458 Asteraceae: *Clibadium sylvestre* (Aubl.) Baill.

4459 Poaceae: *Lasiacis ligulata* Hitchc. & Chase
4460 Euphorbiaceae: *Acalypha scandens* Benth.
4461 Apocynaceae: *Tabernaemontana undulata* Vahl
4462 Vitaceae: *Cissus verticillata* (L.) Nicolson & C.E. Jarvis
4463 Fabaceae-Papil.: *Dioclea*
4464 Asteraceae: *Clibadium surinamense* L.
4465 Piperaceae: *Piper hostmannianum* (Miq.) C. DC.
4466 Clusiaceae: *Vismia sessilifolia* (Aubl.) Choisy
4467 Heliconiaceae: *Heliconia acuminata* Rich.
4468 Fabaceae-Caesal.: *Senna multijuga* (Rich.) H.S. Irwin & Barneby var. *multijuga*
4469 Costaceae: *Costus erythrothyrsus* Loes.
4470 Cyatheaceae: *Cnemidaria spectabilis* (Kunze) R.M. Tryon
4471 Fabaceae-Papil.: *Desmodium*
4472 Rubiaceae: *Chimarrhis microcarpa* Standl.
4473 Viscaceae: *Phoradendron racemosum* (Aubl.) Krug & Urb.
4474 Fabaceae-Mimos.: *Inga sarmentosa* Glaz. ex Harms
4475 Piperaceae: *Peperomia obtusifolia* (L.) A. Dietr.
4476 Gesneriaceae: *Besleria flavovirens* Nees & Mart.
4477 Heliconiaceae: *Heliconia hirsuta* L. f.
4478 Pteridaceae: *Pteris altissima* Poir.
4479 Arecaceae: *Geonoma* cf. *maxima* (Poit.) Kunth
4480 Clusiaceae: *Clusia myriandra* (Benth.) Planch. & Triana
4481 Clusiaceae: *Clusia myriandra* (Benth.) Planch. & Triana
4482 Arecaceae: *Bactris* cf. *simplicifrons* Mart.
4483 Rubiaceae: *Sabicea oblongifolia* (Miq.) Steyerm.
4484 Smilacaceae: *Smilax schomburgkiana* Kunth
4485 Melastomataceae: *Clidemia venosa* (Gleason) Wurdack
4486 Melastomataceae: *Miconia plukenetii* Naudin
4487 Melastomataceae: *Miconia hypoleuca* (Benth.) Triana
4488 Cyperaceae: *Becquerelia cymosa* Brongn. ssp. *cymosa*
4489 Marantaceae: *Calathea cyclophora* Baker
4490 Piperaceae: *Piper aequale* Vahl
4491 Dilleniaceae: *Davilla kunthii* A. St.-Hil.
4492 Melastomataceae: *Pterolepis glomerata* (Rottb.) Miq. var. *angosturensis* (Bonpl.) Cogn.
4493 Verbenaceae: *Lantana camara* L.
4494 Rhamnaceae
4495 Asteraceae: *Mikania psilostachya* DC.
4496 Myrtaceae: *Psidium guajava* L.
4497 Sapindaceae: *Serjania membranacea* Splitg.
4498 Poaceae: *Sporobolus jacquemontii* Kunth
4499 Cyperaceae: *Kyllinga brevifolia* Rottb.
4500 Fabaceae-Caesal.: *Senna occidentalis* (L.) Link
4501 Poaceae: *Ischaemum timorense* Kunth
4502 Malvaceae: *Sida rhombifolia* L.
4503 Melastomataceae: *Pterolepis glomerata* (Rottb.) Miq. var. *angosturensis* (Bonpl.) Cogn.
4504 Scrophulariaceae: *Achetaria guianensis* Pennell
4505 Ochnaceae: *Sauvagesia erecta* L. ssp. *erecta*
4506 Rubiaceae: *Borreria densiflora* DC.
4507 Rubiaceae: *Borreria assurgens* (Ruiz & Pav.) Griseb.
4508 Rubiaceae: *Borreria latifolia* (Aubl.) K. Schum.
4509 Solanaceae
4510 Verbenaceae: *Stachytarpheta cayennensis* (Rich.) Vahl
4511 Fabaceae-Caesal.: *Senna reticulata* (Willd.) H.S. Irwin & Barneby
4512 Cyperaceae: *Fimbristylis miliacea* (L.) Vahl
4513 Casuarinaceae: *Casuarina equisetifolia* J.R. Forst. & G. Forst.
4514 Lygodiaceae: *Lygodium volubile* Sw.
4515 Chrysobalanaceae: *Licania persaudii* Fanshawe & Maguire
4516 Rubiaceae: *Uncaria tomentosa* (Willd. ex Roem. & Schult.) DC.

4517 Clusiaceae: *Clusia grandiflora* Splitg.
4518 Indet.
4519 Verbenaceae: *Priva lappulacea* (L.) Pers.
4520 Rubiaceae
4521 Rubiaceae
4522 Amaranthaceae
4523 NO RECORD through 4577
4578 Melastomataceae: *Siphanthera cordifolia* (Benth.) Gleason
4579 Apocynaceae: *Mandevilla benthamii* (A. DC.) K. Schum.
4580 Lentibulariaceae: *Utricularia hispida* Lam.
4581 Burmanniaceae: *Burmannia bicolor* Mart.
4582 Fungi
4583 Xyridaceae: *Xyris surinamensis* Spreng.
4584 Hymenophyllaceae: *Trichomanes humboldtii* (Bosch) Lellinger
4585 Cyperaceae: *Rhynchospora barbata* (Vahl) Kunth
4586 Polygalaceae: *Polygala timoutou* Aubl.
4587 a Ochnaceae: *Sauvagesia sprengelii* A. St.-Hil.
4587 b Melastomataceae: *Comolia villosa* (Aubl.) Triana
4588 Melastomataceae: *Meriania sclerophylla* (Naudin) Triana
4589 Lentibulariaceae: *Utricularia longeciliata* A. DC.
4590 Ericaceae
4591 Eriocaulaceae: *Syngonanthus* sp.
4592 Scrophulariaceae: *Scoparia dulcis* L.
4593 Gentianaceae
4594 Rubiaceae
4595 Rubiaceae: *Perama hirsuta* Aubl.
4596 Asteraceae: *Praxelis asperulacea* (Baker) R.M. King & H. Rob.
4597 Rubiaceae: *Chalepophyllum guianense* Hook. f.
4598 Ochnaceae: *Ouratea* sp.
4599 Droseraceae: *Drosera kaieteurensis* Brumm.-Ding.
4600 Humiriaceae: *Humiria balsamifera* Aubl. var. *imbaimadaiensis* Cuatrec.
4601 Rapateaceae: *Stegolepis angustata* Gleason
4602 Xyridaceae: *Abolboda grandis* Griseb. var. *rigida* Malme
4603 Ericaceae: *Vaccinium euryanthum* A.C. Sm.
4604 Hymenophyllaceae: *Trichomanes martiusii* C. Presl
4605 Bromeliaceae: *Mezobromelia pleiosticha* (Griseb.) Utley & H. Luther
4606 Bromeliaceae: *Catopsis berteroniana* (Schult. & Schult. f.) Mez
4607 Bromeliaceae: *Tillandsia complanata* Benth.
4608 Fungi
4609 Rapateaceae: *Saxofridericia regalis* R.H. Schomb.
4610 Lomariopsidaceae: *Elaphoglossum luridum* (Fée) H. Christ
4611 Orchidaceae: *Elleanthus graminifolius* (Barb. Rodr.) Lojtnant
4612 Humiriaceae: *Humiria balsamifera* Aubl. var. *floribunda* (Mart.) Cuatrec.
4613 Fungi-Ascomycete
4614 Ericaceae: *Vaccinium puberulum* Klotzsch ex Meisn.
4615 Ochnaceae: *Poecilandra retusa* Tul.
4616 Melastomataceae: *Macairea pachyphylla* Benth.
4617 Fabaceae-Caesal.: *Dimorphandra cuprea* Sprague & Sandwith
4618 Lomariopsidaceae: *Elaphoglossum plumosum* (Fée) T. Moore
4619 Orchidaceae: *Sobralia liliastrum* Lindl.
4620 Orchidaceae: *Scaphyglottis modesta* (Rchb. f.) Schltr.
4621 Fabaceae-Papil.: *Clitoria*
4622 Theaceae: *Ternstroemia*
4623 Celastraceae: *Maytenus* sp.
4624 Dicranaceae: *Campylopus surinamensis* C. Müll.
4625 Adiantaceae: *Pityrogramma calomelanos* (L.) Link
4626 Asteraceae: *Mikania micrantha* Kunth
4627 Rubiaceae: *Faramea egregia* Sandwith
4628 Melastomataceae: *Tococa aristata* Benth.
4629 Annonaceae: *Duguetia neglecta* Sandwith
4630 Heliconiaceae: *Heliconia acuminata* Rich.
4631 Hookeriaceae: *Brymela parkeriana* (Hook. & Grev.) W.R. Buck
4632 Hymenophyllaceae: *Trichomanes arbuscula* Desv.

4633 Hymenophyllaceae: *Hymenophyllum decurrens* (Jacq.) Sw.
4634 Hymenophyllaceae: *Trichomanes martiusii* C. Presl
4634 a Hymenophyllaceae: *Trichomanes crispum* L.
4635 Hookeriaceae: *Brymela parkeriana* (Hook. & Grev.) W.R. Buck
4636 Dennstaedtiaceae: *Lindsaea portoricensis* Desv.
4637 Lomariopsidaceae: *Elaphoglossum flaccidum* (Fée) T. Moore
4638 Rubiaceae: *Psychotria poeppigiana* Müll. Arg.
4639 Rapateaceae: *Rapatea paludosa* Aubl.
4640 Cyperaceae: *Diplasia karatifolia* Rich.
4641 Orchidaceae: *Maxillaria* cf. *superflua* Rchb. f.
4642 Rubiaceae: *Ixora ulei* K. Krause
4643 Melastomataceae: *Tococa macrosperma* Mart.
4644 Verbenaceae: *Amasonia campestris* (Aubl.) Moldenke
4645 Dichapetalaceae: *Tapura guianensis* Aubl.
4646 Melastomataceae: *Maieta poeppigii* Mart. ex Cogn.
4647 Melastomataceae: *Clidemia epibaterium* DC.
4648 Rubiaceae: *Psychotria deflexa* DC.
4649 Convolvulaceae: *Ipomoea* sp.
4649 b Polygalaceae: *Securidaca pyramidalis* Sprague ex Sandwith
4650 Cyperaceae: *Cyperus luzulae* (L.) Rottb. ex Retz.
4651 Eriocaulaceae: *Paepalanthus fasciculatus* (Rottb.) Kunth
4652 Piperaceae: *Peperomia rotundifolia* (L.) Kunth
4653 Dennstaedtiaceae: *Lindsaea lancea* (L.) Bedd. var. *falcata* (Dryand.) Rosenst.
4654 Fungi
4655 Rubiaceae: *Psychotria muscosa* (Jacq.) Steyerm.
4656 Melastomataceae: *Maieta guianensis* Aubl.
4657 Hypnaceae: *Rhacopilopsis trinitensis* (C. Müll.) Britton & Dixon
4658 Fabaceae-Caesal.: *Mora gonggrijpii* (Kleinhoonte) Sandwith
4659 Leucobryaceae: *Leucobryum crispum* C. Müll.
4660 Arecaceae
4661 Rubiaceae
4662 Fungi
4663 Arecaceae: *Bactris*
4664 Schizaeaceae: *Schizaea incurvata* Schkuhr
4665 Asteraceae: *Unxia camphorata* L. f.
4666 Orchidaceae
4667 Ericaceae: *Satyria panurensis* (Benth. ex Meisn.) Benth. & Hook. f. ex Nied.
4668 Melastomataceae: *Siphanthera hostmannii* Cogn.
4669 Myrtaceae: *Eugenia punicifolia* (Kunth) DC.
4670 Rubiaceae
4671 Grammitidaceae: *Cochlidium linearifolium* (Desv.) Maxon ex C. Chr.
4672 Fungi
4673 Cladoniaceae: *Cladonia secundana* Nyl.
4674 Eriocaulaceae: *Paepalanthus bifidus* (Schrad.) Kunth
4675 a Zingiberaceae: *Renealmia orinocensis* Rusby
4675 b Zingiberaceae: *Renealmia floribunda* K. Schum.
4676 Orchidaceae: *Maxillaria auyantepuiensis* Foldats
4677 Orchidaceae: *Jacquiniella teretifolia* (Sw.) Britton & P. Wilson
4678 Araceae: *Anthurium ptarianum* Steyerm.
4679 Orchidaceae: *Sobralia valida* Rolfe
4680 Araliaceae
4681 Fabaceae-Papil.: *Clitoria*
4682 Orchidaceae: *Reichenbachanthus reflexus* (Lindl.) Brade
4683 Rubiaceae: *Psychotria* cf *crassa* Benth.
4684 Orchidaceae: *Sobralia* sp.
4685 Araceae: *Stenospermation ammiticum* G.S. Bunting
4686 Orchidaceae: *Scaphyglottis fusiformis* (Griseb.) R.E. Schult.
4687 Orchidaceae: *Prosthechea vespa* (Vell.) W.E. Higgins
4688 Bromeliaceae: *Navia caricifolia* L.B. Sm.
4689 Grammitidaceae: *Grammitis taenifolia* (Jenman) Proctor

4690 Orchidaceae: *Reichenbachanthus reflexus* (Lindl.) Brade
4691 Orchidaceae: *Maxillaria mapiriensis* (Kraenzl.) L.O. Williams
4692 Orchidaceae: *Jacquiniella globosa* (Jacq.) Schltr.
4693 Orchidaceae: *Stelis* sp.
4694 Orchidaceae: *Dichaea trulla* Rchb. f.
4695 Ericaceae: *Sphyrospermum cordifolium* Benth.
4696 Bromeliaceae: *Guzmania squarrosa* (Mez & Sodiro) L.B. Sm. & Pittendr.
4697 Bromeliaceae: *Guzmania altsonii* L.B. Sm.
4698 Bromeliaceae: *Tillandsia fendleri* Griseb.
4699 Orchidaceae: *Epidendrum longicolle* Lindl.
4700 Bromeliaceae: *Vriesea incurva* (Griseb.) Read
4701 Lomariopsidaceae: *Elaphoglossum glabellum* J. Sm.
4702 Fungi-Basidiomycete
4703 Fungi
4704 Hymenophyllaceae: *Hymenophyllum fendlerianum* J.W. Sturm
4705 Orchidaceae: *Maxillaria bolivarensis* C. Schweinf.
4706 Clusiaceae: *Clusia flavida* (Benth.) Pipoly
4707 Schizaeaceae: *Schizaea elegans* (Vahl) Sw.
4708 Fabaceae-Caesal.: *Dicymbe corymbosa* Spruce ex Benth.
4709 Clusiaceae
4710 Rubiaceae: *Psychotria crocochlamys* Sandwith
4711 Grammitidaceae: *Cochlidium tepuiense* (A.C. Sm.) L.E. Bishop
4712 Bromeliaceae: *Racinaea spiculosa* (Griseb.) M.A. Spencer & L.B. Sm.
4713 Bromeliaceae: *Tillandsia fendleri* Griseb.
4714 Bromeliaceae: *Guzmania lingulata* (L.) Mez
4715 Rubiaceae: *Perama dichotoma* Poepp. & Endl.
4716 Fungi-Basidiomycete
4717 Cyperaceae: *Lagenocarpus verticillatus* (Spreng.) T. Koyama & Maguire
4718 Dicranaceae: *Eucamptodontopsis tortuosa* H. Rob.
4719 Poaceae: *Parodiolyra micrantha* (Kunth) Davidse & Zuloaga
4720 Rapateaceae: *Stegolepis ferruginea* Baker f.
4721 Gesneriaceae: *Alloplectus savannarum* C.V. Morton
4722 Rubiaceae
4723 Verbenaceae: *Amasonia campestris* (Aubl.) Moldenke
4724 Orchidaceae: *Elleanthus graminifolius* (Barb. Rodr.) Lojtnant
4725 Araceae: *Philodendron linnaei* Kunth
4726 Rubiaceae: *Psychotria*
4727 Melastomataceae: *Clidemia tepuiensis* Wurdack
4728 Asteraceae: *Mikania sprucei* Baker
4729 Melastomataceae: *Tococa aristata* Benth.
4730 Hymenophyllaceae: *Trichomanes anomalum* Maxon & C.V. Morton
4731 Orchidaceae: *Galeottia* sp.
4732 Melastomataceae: *Clidemia heptamera* Wurdack
4733 Aquifoliaceae: *Ilex costata* Edwin
4734 Humiriaceae: *Sacoglottis mattogrossensis* Malme
4735 Fungi
4736 Burmanniaceae: *Dictyostega orobanchoides* (Hook.) Miers ssp. *orobanchoides*
4737 Gentianaceae: *Voyria aphylla* (Jacq.) Pers.
4738 Orchidaceae: *Scaphyglottis grandiflora* Ames & C. Schweinf.
4739 Cyperaceae: *Didymiandrum stellatum* (Boeck.) Gilly
4740 Thurniaceae: *Thurnia sphaerocephala* (Rudge) Hook. f. ssp. nov.
4741 Burseraceae: *Trattinnickia burserifolia* Mart.
4742 Boraginaceae: *Cordia nodosa* Lam.
4743 Melastomataceae: *Clidemia dentata* D. Don
4744 Araceae: *Spathiphyllum cannifolium* (Dryand. ex Sims) Schott
4745 Araceae: *Anthurium gracile* (Rudge) Schott
4746 a Melastomataceae: *Maieta poeppigii* Mart. ex Cogn.

4746 b Asteraceae: *Clibadium surinamense* L.
4747 Araceae: *Monstera*
4748 Piperaceae: *Piper augustum* Rudge
4749 Piperaceae: *Piper pseudoglabrescens* Trel. & Yunck.
4750 Piperaceae: *Piper obliquum* Ruiz & Pav.
4751 Melastomataceae: *Leandra purpurea* Gleason
4752 Solanaceae: *Solanum subinerme* Jacq.
4753 Aspleniaceae: *Asplenium salicifolium* L.
4754 Metaxyaceae: *Metaxya rostrata* (Kunth) C. Presl
4755 Arecaceae: *Astrocaryum gynacanthum* Mart.
4756 Fungi-Basidiomycete
4757 Polypodiaceae: *Microgramma lycopodioides* (L.) Copel.
4758 Chrysobalanaceae: *Hirtella racemosa* Lam.
4759 Tectariaceae: *Triplophyllum funestum* (Kunze) Holttum var. *funestum*
4760 Adiantaceae: *Adiantum terminatum* Kunze ex Miq.
4761 Rubiaceae: *Sipanea*
4762 Campanulaceae: *Centropogon*
4763 Fungi
4764 Piperaceae: *Piper peltatum* L.
4765 Lomariopsidaceae: *Elaphoglossum flaccidum* (Fée) T. Moore
4766 Fabaceae-Papil.: *Desmodium*
4767 Solanaceae: *Physalis pubescens* L.
4768 Dryopteridaceae: *Cyclodium meniscioides* (Willd.) C. Presl
4769 Hymenophyllaceae: *Trichomanes pinnatum* Hedw.
4770 Piperaceae: *Piper hispidum* Sw.
4771 Fungi
4772 Fungi
4773 Fungi
4774 Zingiberaceae: *Renealmia monosperma* Miq.
4775 Rubiaceae: *Psychotria mazaruniensis* Standl.
4776 Melastomataceae: *Phainantha laxiflora* (Triana) Gleason
4777 Fungi-Basidiomycete
4778 Dennstaedtiaceae: *Lindsaea pendula* Klotzsch
4779 Rubiaceae: *Retiniphyllum schomburgkii* (Benth.) Müll. Arg.
4780 Ochnaceae: *Sauvagesia erecta* L. ssp. *erecta*
4781 Ochnaceae: *Poecilandra pumila* Steyerm.
4782 Rubiaceae: *Borreria*
4783 Malpighiaceae: *Tetrapterys pusilla* Steyerm.
4784 Cyperaceae: *Scleria macrogyne* C.B. Clarke
4785 Bromeliaceae: *Brocchinia steyermarkii* L.B. Sm.
4786 Orchidaceae: *Cleistes rosea* Lindl.
4787 Orchidaceae: *Epistephium* sp.
4788 Polygalaceae: *Polygala appressa* Benth.
4789 Ericaceae
4790 Bonnetiaceae: *Bonnetia sessilis* Benth.
4791 Gentianaceae: *Chelonanthus purpurascens* (Aubl.) Struwe, S. Nilsson & V.A. Albert
4792 Xyridaceae: *Xyris involucrata* Nees
4793 Melastomataceae: *Tococa nitens* (Benth.) Triana
4794 Xyridaceae: *Xyris guianensis* Steud.
4795 Ebenaceae
4796 Rubiaceae: *Psychotria bahiensis* DC.
4797 Melastomataceae: *Clidemia involucrata* DC.
4798 Euphorbiaceae: *Croton nepetifolius* Baill.
4799 Myrsinaceae: *Cybianthus spicatus* (Kunth) G. Agostini
4800 Gnetaceae: *Gnetum urens* (Aubl.) Blume
4801 Orchidaceae: *Erycina pusilla* (L.) N.H. Williams & M.W. Chase
4802 Polygalaceae: *Securidaca pyramidalis* Sprague ex Sandwith
4803 Bignoniaceae: *Schlegelia violacea* (Aubl.) Griseb.
4804 Cecropiaceae: *Coussapoa microcephala* Trécul
4805 Melastomataceae: *Tococa subciliata* (DC.) Triana
4806 Solanaceae: *Lycianthes pauciflora* (Vahl) Bitter
4807 Orchidaceae: *Dichaea* sp.
4808 Gesneriaceae: *Codonanthe crassifolia* (H. Focke) C.V. Morton
4809 Polypodiaceae: *Microgramma reptans* (Cav.) A.R. Sm.

4810 Piperaceae: *Peperomia rotundifolia* (L.) Kunth
4811 Bromeliaceae: *Aechmea tillandsioides* (Mart. ex Schult. f.) Baker
4812 Fabaceae-Mimos.: *Inga pezizifera* Benth.
4813 Solanaceae: *Solandra* sp.
4814 Acanthaceae: *Ruellia rubra* Aubl.
4815 Annonaceae: *Guatteria paludosa* R.E. Fr.
4816 Rubiaceae: *Psychotria muscosa* (Jacq.) Steyerm.
4817 Acanthaceae: *Justicia calycina* (Nees) V.A.W. Graham
4818 Melastomataceae: *Macrocentrum cristatum* (DC.) Triana
4819 Gesneriaceae: *Paradrymonia maculata* (Hook. f.) Wiehler
4820 Gesneriaceae: *Paradrymonia densa* (C.H. Wright) Wiehler
4821 Cecropiaceae: *Coussapoa microcephala* Trécul
4822 Malpighiaceae: *Stigmaphyllon sinuatum* (DC.) A. Juss.
4823 Gesneriaceae: *Nautilocalyx pictus* (Hook.) Sprague
4824 Rubiaceae: *Sipanea*
4825 Rubiaceae: *Ixora potaroensis* Steyerm.
4826 Araceae: *Anthurium expansum* Gleason
4827 Dennstaedtiaceae: *Lindsaea sagittata* (Aubl.) Dryand.
4828 Rubiaceae
4829 Myrsinaceae: *Ardisia guianensis* (Aubl.) Mez
4830 Melastomataceae: *Aciotis purpurascens* (Aubl.) Triana
4831 Dryopteridaceae: *Cyclodium meniscioides* (Willd.) C. Presl var. *meniscioides*
4832 Melastomataceae: *Leandra divaricata* (Naudin) Cogn.
4833 Dennstaedtiaceae: *Lindsaea lancea* (L.) Bedd. var. *lancea*
4834 Rubiaceae
4835 Selaginellaceae: *Selaginella epirrhizos* Spring
4836 Cyperaceae: *Calyptrocarya glomerulata* (Brongn.) Urb.
4837 Poaceae: *Pariana radiciflora* Sagot ex Döll
4838 Plagiochilaceae: *Plagiochila*
4839 a Calymperaceae: *Calymperes lonchophyllum* Schwaegr.
4839 b Hookeriaceae: *Callicosta bipinnata* (Schwaegr.) C. Müll.
4840 Loganiaceae
4841 Orchidaceae: *Cheiradenia cuspidata* Lindl.
4842 Rubiaceae: *Palicourea*
4843 Rubiaceae: *Psychotria apoda* Steyerm.
4844 Orchidaceae: *Wullschlaegelia calcarata* Benth.
4845 Araceae: *Spathiphyllum cuspidatum* Schott
4846 Hymenophyllaceae: *Trichomanes diaphanum* Kunth
4847 Poaceae: *Ichnanthus pallens* (Sw.) Munro ex Benth.
4848 Campanulaceae: *Centropogon cornutus* (L.) Druce
4849 Apocynaceae
4850 Marattiaceae: *Danaea elliptica* Sm. subsp. *simplicifolia* (Rudge) Rolleri
4851 Araceae
4852 Vittariaceae: *Antrophyum guayanense* Hieron.
4853 Cyperaceae: *Mapania sylvatica* Aubl.
4854 Piperaceae: *Peperomia serpens* (Sw.) Loudon
4855 Piperaceae: *Piper anonifolium* (Kunth) C. DC.
4856 Piperaceae: *Piper divaricatum* G. Mey.
4857 Rubiaceae
4858 Fungi-Basidiomycete
4859 Fungi-Basidiomycete
4860 Fungi-Basidiomycete
4861 Fungi-Basidiomycete
4862 Fungi-Basidiomycete
4863 Fungi-Basidiomycete
4864 Metaxyaceae: *Metaxya rostrata* (Kunth) C. Presl
4865 a Cyatheaceae: *Cyathea cyatheoides* (Desv.) K.U. Kramer
4866 a Melastomataceae: *Macrocentrum cristatum* (DC.) Triana var. *microphyllum* Cogn.
4866 b Gesneriaceae: *Besleria insolita* C.V. Morton
4867 Heliconiaceae: *Heliconia acuminata* Rich.
4868 Rapateaceae: *Spathanthus unilateralis* (Rudge) Desv.

4869 Rubiaceae: *Psychotria potaroensis* (Sandwith) Steyerm.
4870 Cyclanthaceae: *Dicranopygium angustissimum* (Sandwith) Harling
4871 Polypodiaceae: *Polypodium caceresii* Sodiro
4872 Gesneriaceae: *Lampadaria rupestris* Feuillet & L.E. Skog
4873 Burmanniaceae: *Gymnosiphon divaricatus* (Benth.) Benth. & Hook. f.
4874 Burmanniaceae: *Gymnosiphon capitatus* (Benth.) Urb.
4875 Fungi
4876 Arecaceae: *Geonoma*
4877 Rubiaceae: *Ixora potaroensis* Steyerm.
4878 Rubiaceae
4879 Hymenophyllaceae: *Hymenophyllum hirsutum* (L.) Sw.
4880 Melastomataceae: *Tococa aristata* Benth.
4881 Ericaceae: *Thibaudia nutans* Klotzsch ex Mansf. s.l.
4882 Sapotaceae
4883 Euphorbiaceae: *Phyllanthus vacciniifolius* (Müll. Arg.) Müll. Arg.
4884 Melastomataceae: *Comolia microphylla* Benth.
4885 Rapateaceae: *Saxofridericia* cf. *regalis* R.H. Schomb.
4885 a Melastomataceae: *Comolia microphylla* Benth.
4886 Cladoniaceae: *Cladonia signata* (Eschw.) Vain.
4887 Clusiaceae: *Clusia schomburgkiana* (Planch. & Triana) Benth. ex Engl.
4888 Clusiaceae: *Clusia crassifolia* Planch. & Triana
4889 Theaceae: *Ternstroemia*
4890 Gentianaceae: *Chelonanthus purpurascens* (Aubl.) Struwe, S. Nilsson & V.A. Albert
4891 Hymenophyllaceae: *Trichomanes trollii* Bergdolt
4892 Schizaeaceae: *Actinostachys pennula* (Sw.) Hook.
4893 Melastomataceae: *Clidemia capitata* Benth.
4894 Melastomataceae: *Miconia ciliata* (Rich.) DC.
4895 Apocynaceae: *Mandevilla spruceana* (Müll. Arg.) K. Schum.
4896 Pottiaceae: *Trichostomum brachydontium* Bruch
4897 Lichen
4898 Bromeliaceae: *Aechmea politii* L.B. Sm.
4899 Bromeliaceae: *Aechmea nudicaulis* (L.) Griseb.
4900 Lentibulariaceae
4901 Rubiaceae: *Psychotria sandwithiana* (Steyerm.) Steyerm.
4902 Ochnaceae: *Ouratea guianensis* Aubl.
4903 Rubiaceae: *Rudgea hostmanniana* Benth.
4904 Araceae: *Anthurium expansum* Gleason
4905 Cyclanthaceae: *Asplundia* cf. *glandulosa* (Gleason) Harling
4906 Arecaceae
4907 Campanulaceae: *Centropogon cornutus* (L.) Druce
4908 Melastomataceae: *Miconia fanshawei* Wurdack
4909 Lomariopsidaceae: *Elaphoglossum flaccidum* (Fée) T. Moore
4910 Gesneriaceae: *Alloplectus savannarum* C.V. Morton
4911 Solanaceae: *Solanum fulvidum* Bitter
4912 Araceae: *Anthurium roraimense* N.E. Br.
4913 Rubiaceae: *Faramea capillipes* Müll. Arg.
4914 Arecaceae: *Geonoma aspidiifolia* Spruce
4915 Gesneriaceae: *Besleria saxicola* C.V. Morton
4916 Acanthaceae: *Odontonema schomburgkianum* (Nees) Kuntze
4917 Annonaceae: *Anaxagorea dolichocarpa* Sprague & Sandwith
4918 Rubiaceae: *Didymochlamys connellii* N.E. Br.
4919 Adiantaceae: *Adiantum olivaceum* Baker
4920 Dryopteridaceae: *Cyclodium inerme* (Fée) A.R. Sm.
4921 Dennstaedtiaceae: *Lindsaea lancea* (L.) Bedd. var. *lancea*
4922 Tectariaceae: *Tectaria trifoliata* (L.) Cav.
4923 Gesneriaceae: *Tylopsacas cuneatum* (Gleason) Leeuwenb.
4924 Grammitidaceae: *Grammitis suspensa* (L.) Proctor

4925 Hymenophyllaceae: *Trichomanes pedicellatum* Desv.
4926 Hymenophyllaceae: *Trichomanes jenmanii* Lellinger
4927 a Leucomiaceae: *Leucomium steerei* Allen & Veling
4927 b Hookeriaceae: *Thamniopsis killipii* (Williams) E.B. Bartram
4928 Piperaceae: *Peperomia*
4929 Commelinaceae: *Dichorisandra hexandra* (Aubl.) Standl.
4930 Begoniaceae: *Begonia* sp. nov.
4931 Gentianaceae: *Voyria clavata* Splitg.
4932 Rubiaceae: *Psychotria bostrychothyrsus* Sandwith
4933 Melastomataceae: *Miconia bracteata* (DC.) Triana
4934 Lauraceae: *Licaria debilis* (Mez) Kosterm.
4935 Fabaceae-Caesal.
4936 Fabaceae-Papil.: *Swartzia*
4937 Annonaceae: *Annona*
4938 Fungi-Basidiomycete
4939 Costaceae: *Costus erythrothyrsus* Loes.
4940 Boraginaceae: *Cordia schomburgkii* DC.
4941 Melastomataceae: *Aciotis annua* (Mart. ex DC.) Triana
4942 Asteraceae: *Calea caleoides* (DC.) H. Rob.
4943 Scrophulariaceae: *Achetaria guianensis* Pennell
4944 Cyperaceae: *Rhynchospora pubera* (Vahl) Boeck. ssp. *pubera*
4945 Onagraceae: *Ludwigia hyssopifolia* (G. Don) Exell

IV: COLLECTIONS BY DETERMINED TAXA

FUNGI

Indet.: 2211, 2212, 2214, 2247, 2249, 2250, 2252, 3097, 3461, 3667, 3987, 3988, 4331, 4425, 4582, 4608, 4654, 4662, 4672, 4703, 4735, 4763, 4771, 4772, 4773, 4875

Fungi-Ascomycete
Indet.: 3885, 4613

Fungi-Basidiomycete
Indet.: 1917, 1998, 2959, 3230, 3499, 3603, 3649, 3650, 3660, 3666, 3676, 3677, 3678, 3702, 4702, 4716, 4756, 4777, 4858, 4859, 4860, 4861, 4862, 4863, 4938

Auriculariaceae
Auricularia sp.: 2217

Ganodermataceae
Amauroderma sp.: 1906
Ganoderma sp.: 1905, 2268, 3648, 3669
Ganoderma orbiformis (Fr.) Ryvarden: 3547

Polyporaceae
Indet.: 4221
Fomes sp.: 3651
Hexagonium sp.: 2216
Irpex sp.: 3481
Lentinus crinitus Fr.: 1783, 2215
Polyporus sp.: 2248
Pycnoporus sanguineus (L.) Murrill: 2149, 3971

Xylariaceae
Xylaria polymorpha (Pers.) Grev.: 4252

LICHENS

Indet.: 1782, 2364, 2365, 2366, 2479, 2837, 3749, 3989, 3992, 4897

Cladoniaceae
Cladonia sp.: 1780
Cladonia secundana Nyl.: 4673
Cladonia signata (Eschw.) Vain.: 4886

LIVERWORTS

Plagiochilaceae
Plagiochila sp.: 4838

BRYOPHYTES

Indet.: 1781, 2058, 2213, 2251, 2256, 2367, 2368, 2478, 2995, 2996, 3049, 3482, 3483, 3498, 3548, 3652, 3653, 3654, 3659, 3668, 3883, 3884, 3899, 3986, 4406, 4435

Dicranaceae
Campylopus surinamensis C. Müll.: 4624
Eucamptodontopsis tortuosa H. Rob.: 4718

Funariaceae
Funaria hygrometrica Hedw. var. *calvescens* (Schwaegr.) Mont.: 3020

Hookeriaceae
Brymela parkeriana (Hook. & Grev.) W.R. Buck: 4631, 4635

Hypnaceae
Rhacopilopsis trinitensis (C. Müll.) Britton & Dixon: 4657

Leucobryaceae
Leucobryum crispum C. Müll.: 4659

Polytrichaceae
Polytrichum commune Hedw.: 3019

Pottiaceae
Trichostomum brachydontium Bruch: 4896

LYCOPHYTES

Lycopodiaceae
Indet.: 2997

Lycopodiella caroliniana (L.) Pic. Serm. var. *meridionalis* (Underw. & F.E. Lloyd) B. Oellg. & P.G. Windisch: 3043
Lycopodiella cernua (L.) Pic. Serm.: 2464, 2535, 2719, 3410, 3581, 4215
Lycopodium sp.: 1759

Selaginellaceae
Selaginella epirrhizos Spring: 4835
Selaginella mazaruniense Jenman: 3842
Selaginella parkeri (Hook. & Grev.) Spring: 3291

PTERIDOPHYTES

Indet.: 3898

Adiantaceae
Adiantopsis radiata (L.) Fée: 2671, 3057
Adiantum adiantoides (J. Sm.) C. Chr.: 2680
Adiantum argutum Splitg.: 3371
Adiantum latifolium Lam.: 4393
Adiantum olivaceum Baker: 4919
Adiantum phyllitidis J. Sm.: 2678, 4374
Adiantum terminatum Kunze ex Miq.: 4760
Pityrogramma calomelanos (L.) Link: 2027, 2373, 3835, 4436, 4625
Pterozonium scopulinum Lellinger: 3990

Aspleniaceae
Asplenium auritum Sw.: 3099
Asplenium cuneatum Lam.: 2715
Asplenium salicifolium L.: 4228, 4753
Asplenium serratum L.: 3768, 4401

Blechnaceae
Blechnum serrulatum Rich.: 1765, 2816, 4011
Salpichlaena hookeriana (Kuntze) Alston: 3630

Cyatheaceae
Cnemidaria spectabilis (Kunze) R.M. Tryon: 4470
Cyathea andina (H. Karst.) Domin: 3793
Cyathea cyatheoides (Desv.) K.U. Kramer: 3146, 3568
Cyathea macrosora (Baker) Domin var. *macrosora*: 2865
Cyathea pungens (Willd.) Domin: 2624a
Cyathea surinamensis (Miq.) Domin: 3312, 4225

Dennstaedtiaceae
Lindsaea divaricata Klotzsch: 3834
Lindsaea lancea (L.) Bedd. var. *falcata* (Dryand.) Rosenst.: 4653
Lindsaea lancea (L.) Bedd. var. *lancea*: 2283, 3310, 4833, 4921
Lindsaea pendula Klotzsch: 4778
Lindsaea portoricensis Desv.: 2767, 3153, 4636
Lindsaea quadrangularis Raddi ssp. *antillensis* K.U. Kramer: 3320
Lindsaea sagittata (Aubl.) Dryand.: 4827
Lindsaea semilunata (C. Chr.) C. Chr.: 3079
Lindsaea stricta (Sw.) Dryand. var. *jamesoniiformis* K.U. Kramer: 3050
Lindsaea stricta (Sw.) Dryand. var. *parvula* (Fée) K.U. Kramer: 3623
Pteridium aquilinum (L.) Kuhn var. *arachnoideum* (Kaulf.) Maxon: 1722
Saccoloma elegans Kaulf.: 3645, 4382

Dryopteridaceae
Cyclodium inerme (Fée) A.R. Sm.: 3139, 3463, 3566, 4920
Cyclodium meniscioides (Willd.) C. Presl: 3523, 4768
Cyclodium meniscioides (Willd.) C. Presl var. *meniscioides*: 3321, 3570, 3838, 3858, 4442, 4831
Cyclodium varians (Fée) A.R. Sm.: 3877
Didymochlaena truncatula (Sw.) J. Sm.: 2709, 4390
Polybotrya caudata Kunze: 4206
Stigmatopteris rotundata (Humb. & Bonpl. ex Willd.) C. Chr.: 3433, 3485

Gleicheniaceae
Dicranopteris flexuosa (Schrad.) Underw.: 2815
Dicranopteris nervosa (Kaulf.) Maxon: 3007
Dicranopteris pectinata (Willd.) Underw.: 1795, 1807, 2465, 3502

Grammitidaceae
Cochlidium linearifolium (Desv.) Maxon ex C. Chr.: 4671
Cochlidium tepuiense (A.C. Sm.) L.E. Bishop: 4711
Grammitis suspensa (L.) Proctor: 4924
Grammitis taenifolia (Jenman) Proctor: 4689

Hymenophyllaceae
Hymenophyllum decurrens (Jacq.) Sw.: 4633
Hymenophyllum fendlerianum J.W. Sturm: 4704
Hymenophyllum hirsutum (L.) Sw.: 4879
Trichomanes anomalum Maxon & C.V. Morton: 4730
Trichomanes arbuscula Desv.: 4632
Trichomanes crispum L.: 3827
Trichomanes diaphanum Kunth: 4846
Trichomanes diversifrons (Bory) Mett. ex Sadeb.: 4404
Trichomanes elegans Rich.: 3906
Trichomanes humboldtii (Bosch) Lellinger: 2774, 4584
Trichomanes jenmanii Lellinger: 4926
Trichomanes martiusii C. Presl: 4604, 4634
Trichomanes pedicellatum Desv.: 4925
Trichomanes pinnatum Hedw.: 3696, 3812, 4769
Trichomanes radicans Sw. var. *radicans*: 4381
Trichomanes trollii Bergdolt: 4891
Trichomanes vittaria DC. ex Poir.: 2253

Lomariopsidaceae
Elaphoglossum flaccidum (Fée) T. Moore: 4369, 4637, 4765, 4909
Elaphoglossum glabellum J. Sm.: 4428, 4701
Elaphoglossum luridum (Fée) H. Christ: 4610
Elaphoglossum plumosum (Fée) T. Moore: 2932, 4618
Elaphoglossum praetermissum Mickel: 2931

Lygodiaceae
Lygodium venustum Sw.: 2139
Lygodium volubile Sw.: 3170, 3747, 4514

Marattiaceae
Danaea elliptica Sm. subsp. *simplicifolia* (Rudge) Rolleri: 3585, 3840, 4850

Metaxyaceae
Metaxya rostrata (Kunth) C. Presl: 3322, 3569, 4376, 4754, 4864

Oleandraceae
Nephrolepis cordifolia (L.) C. Presl: 3100
Oleandra pilosa Hook.: 2990

Ophioglossaceae
Ophioglossum nudicaule L. f.: 4173

Polypodiaceae
Campyloneurum phyllitidis (L.) C. Presl: 3500
Campyloneurum repens (Aubl.) C. Presl: 4416
Dicranoglossum desvauxii (Klotzsch) Proctor: 3572, 4403
Microgramma fuscopunctata (Hook.) Vareschi: 4262
Microgramma lycopodioides (L.) Copel.: 4036, 4757
Microgramma reptans (Cav.) A.R. Sm.: 3424, 3641, 3792, 4143, 4809
Microgramma tecta (Kaulf.) Alston: 2090
Pecluma plumula (Humb. & Bonpl. ex Willd.) M.G. Price: 2097, 2318
Phlebodium pseudoaureum (Cav.) Lellinger: 2994
Pleopeltis percussa (Cav.) Hook. & Grev.: 2320, 2927
Polypodium caceresii Sodiro: 3781, 4871
Polypodium dulce Poir.: 3470
Polypodium polypodioides (L.) Watt var. *burchellii* (Baker) Weath.: 2092, 2319
Polypodium triseriale Sw.: 2572, 3960

Pteridaceae
Pteris altissima Poir.: 4478

Schizaeaceae
Actinostachys pennula (Sw.) Hook.: 4892
Schizaea elegans (Vahl) Sw.: 2764, 4707
Schizaea incurvata Schkuhr: 1756, 4664
Schizaea poeppigiana J.W. Sturm: 2828

Tectariaceae
Tectaria incisa Cav.: 2684, 4239
Tectaria trifoliata (L.) Cav.: 2687, 3455, 4391, 4922
Triplophyllum funestum (Kunze) Holttum var. *funestum*: 4383, 4759

Thelypteridaceae
Thelypteris (Goniopteris) sp.: 1925
Thelypteris arborescens (Klotzsch) C.V. Morton): 2768
Thelypteris hispidula (Decne.) C.F. Reed var. *hispidula*
Thelypteris macrophylla (Kunze) C.V. Morton: 3469
Thelypteris opulenta (Kaulf.) Fosberg: 2623, 3567, 3867, 4224, 4330
Thelypteris poiteana (Bory) Proctor: 2102

Vittariaceae
Ananthacorus angustifolius (Sw.) Underw. & Maxon: 2093, 2321
Antrophyum guayanense Hieron.: 2282, 4852

Woodsiaceae
Diplazium celtidifolium Kunze: 4392
Diplazium cristatum (Desr.) Alston: 2685

GYMNOSPERMS

Gnetaceae
Gnetum sp.: 2045
Gnetum urens (Aubl.) Blume: 2324, 4800

ANTHOPHYTA

Acanthaceae
Justicia calycina (Nees) V.A.W. Graham: 3253, 3517, 4817
Justicia mcdowellii Wassh.: 3473
Justicia pectoralis Jacq.: 3359
Justicia schomburgkiana (Nees) V.A.W. Graham: 1856
Odontonema schomburgkianum (Nees) Kuntze: 4916
Ruellia geminiflora Kunth var. *angustifolia* (Nees) Griseb.: 2043
Ruellia rubra Aubl.: 4814

Alismataceae
Echinodorus sp.: 4163

Amaranthaceae
Indet.: 3882, 4522
Alternanthera brasiliana (L.) Kuntze: 2112
Amaranthus viridis L.: 2396
Cyathula prostrata (L.) Blume: 1908, 2595, 4096, 4307

Anacardiaceae
Tapirira guianensis Aubl.: 1740, 2032

Annonaceae
Indet.: 2609, 3369, 3679
Anaxagorea dolichocarpa Sprague & Sandwith: 2110, 2262, 3474, 3613, 3690, 4183, 4329, 4917
Annona sp.: 2123, 2190, 2204, 3682, 4937
Annona hypoglauca Mart.: 1979, 2370
Annona sericea Dunal: 2500, 2712, 3508, 3862
Annona symphyocarpa Sandwith: 3774
Cymbopetalum brasiliense (Vell.) Benth. ex Baill.: 2700
Duguetia sp.: 3691, 3706
Duguetia neglecta Sandwith: 2440, 4629
Duguetia pauciflora Rusby: 3558, 4207, 4355
Duguetia quitarensis Benth.: 1898
Duguetia tenuis R.E. Fr.: 3689
Duguetia yeshidan Sandwith: 4338
Fusaea longifolia (Aubl.) Saff.: 2106
Guatteria sp.: 2501, 3070
Guatteria paludosa R.E. Fr.: 3495, 4815
Guatteria schomburgkiana Mart.: 2026
Rollinia exsucca (DC. ex Dunal) A. DC.: 1815, 3108, 3549, 4124, 4203
Unonopsis sp.: 3375
Unonopsis glaucopetala R.E. Fr.: 4350
Xylopia aromatica (Lam.) Mart.: 1986, 3137
Xylopia benthamii R.E. Fr.: 2260
Xylopia nitida Dunal: 2072, 2091

Apiaceae
Hydrocotyle umbellata L.: 4100

Apocynaceae
Indet.: 2807, 3393, 3584, 3832, 4849
Allamanda sp.: 4047
Catharanthus roseus (L.) G. Don: 2496
Galactophora schomburgkiana Woodson: 3015
Himatanthus sp.: 2056, 2164
Himatanthus bracteatus (A. DC.) Woodson var. *revolutus* (Huber) Plumel: 1826
Macropharynx spectabilis (Stadelm.) Woodson: 3477
Malouetia gracilis (Benth.) A. DC.: 3345
Mandevilla benthamii (A. DC.) K. Schum.: 2961, 4579
Mandevilla holstii Morillo: 2918
Mandevilla scabra (Hoffmanns. ex Roem. & Schult.) K. Schum.: 3952, 4075
Mandevilla spruceana (Müll. Arg.) K. Schum.: 4895
Mandevilla subcarnosa (Benth.) Woodson: 2769
Mesechites trifida (Jacq.) Müll. Arg.: 1962, 2380
Odontadenia geminata (Hoffmanns. ex Roem. & Schult.) Müll. Arg.: 4074
Odontadenia macrantha (Roem. & Schult.) Markgr.: 2289, 3168, 3173, 3190, 3193
Odontadenia nitida (Vahl) Müll. Arg.: 4164

Odontadenia puncticulosa (Rich.) Pulle: 3422
Odontadenia verrucosa (Willd. ex Roem. & Schult.) K. Schum. ex Markgr.: 3191
Prestonia cayennensis (Benth.) Pichon: 3179
Prestonia lindleyana Woodson ex Gleason & A.C. Sm.: 3759
Prestonia quinquangularis (Jacq.) Spreng.: 1965, 2285
Prestonia tomentosa R. Br.: 2179
Tabernaemontana cerea (Woodson) Leeuwenb.: 3998
Tabernaemontana disticha A. DC.: 3468
Tabernaemontana heterophylla Vahl: 2407, 4311, 4315
Tabernaemontana siphilitica (L. f.) Leeuwenb.: 1980, 2162, 2383
Tabernaemontana undulata Vahl: 2259, 2269, 2346, 3258, 3290, 4461

Aquifoliaceae
Ilex sp.: 2900, 2973
Ilex costata Edwin: 4733
Ilex daphnogena Reissek: 3136
Ilex guianensis (Aubl.) Kuntze: 2832
Ilex jenmanii Loes.: 2542
Ilex martiniana D. Don: 4136
Ilex retusa Klotzsch ex Reissek: 3034

Araceae
Indet.: 3637, 4094, 4851
Anthurium clavigerum Poepp.: 2711
Anthurium expansum Gleason: 3446, 3484, 3492, 3555, 3665, 3959, 3976, 4826, 4904
Anthurium gracile (Rudge) Schott: 4745
Anthurium jenmanii Engl.: 3658
Anthurium obtusum (Engl.) Grayum: 3762
Anthurium pentaphyllum (Aubl.) G. Don: 2676
Anthurium ptarianum Steyerm.: 2945, 4678
Anthurium roraimense N.E. Br.: 4912
Anthurium scandens (Aubl.) Engl.: 4030
Anthurium thrinax Madison: 3462, 3524, 3918, 3996
Caladium bicolor (Aiton) Vent.: 4340
Heteropsis flexuosa (Kunth) G.S. Bunting: 2267
Monstera sp.: 4747
Monstera adansonii Schott: 3536, 4309
Monstera obliqua Miq.: 4323
Montrichardia arborescens (L.) Schott: 2471
Philodendron callosum K. Krause: 2852, 4023
Philodendron camposportoanum G.M. Barroso: 2066
Philodendron ecordatum Schott: 4008
Philodendron fragrantissimum (Hook.) G. Don: 2675, 4415
Philodendron insigne Schott: 3947
Philodendron linnaei Kunth: 2254, 2445, 4725
Philodendron muricatum Willd. ex Schott: 2016, 3728
Philodendron ornatum Schott: 3911, 4341
Philodendron rudgeanum Schott: 4243
Philodendron tatei K. Krause: 2789
Rhodospatha venosa Gleason: 3593
Spathiphyllum cannifolium (Dryand. ex Sims) Schott: 2924, 3061, 4744
Spathiphyllum cuspidatum Schott: 4236, 4364, 4845
Spathiphyllum maguirei G.S. Bunting: 3701, 3787, 3843, 4187
Stenospermation ammiticum G.S. Bunting: 4034, 4685
Stenospermation maguirei A.M.E. Jonker & Jonker: 2947
Syngonium podophyllum Schott: 2082, 4320
Urospatha sagittifolia (Rudge) Schott: 2845, 3307, 3636
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ILLUSTRATIONS

Plate 1. *Nymphoides indica* (L.) Kuntze (Menyanthaceae), a rooted aquatic collected from Lama Creek in the East Demerara Water Conservancy. McDowell, Horn & Wiersma 4159.

Plate 2. *Urospatha sagittifolia* (Rudge) Schott (Araceae), collected near the banks of the Utshe River on the trail to Venezuela. McDowell & Gopaul 2845.

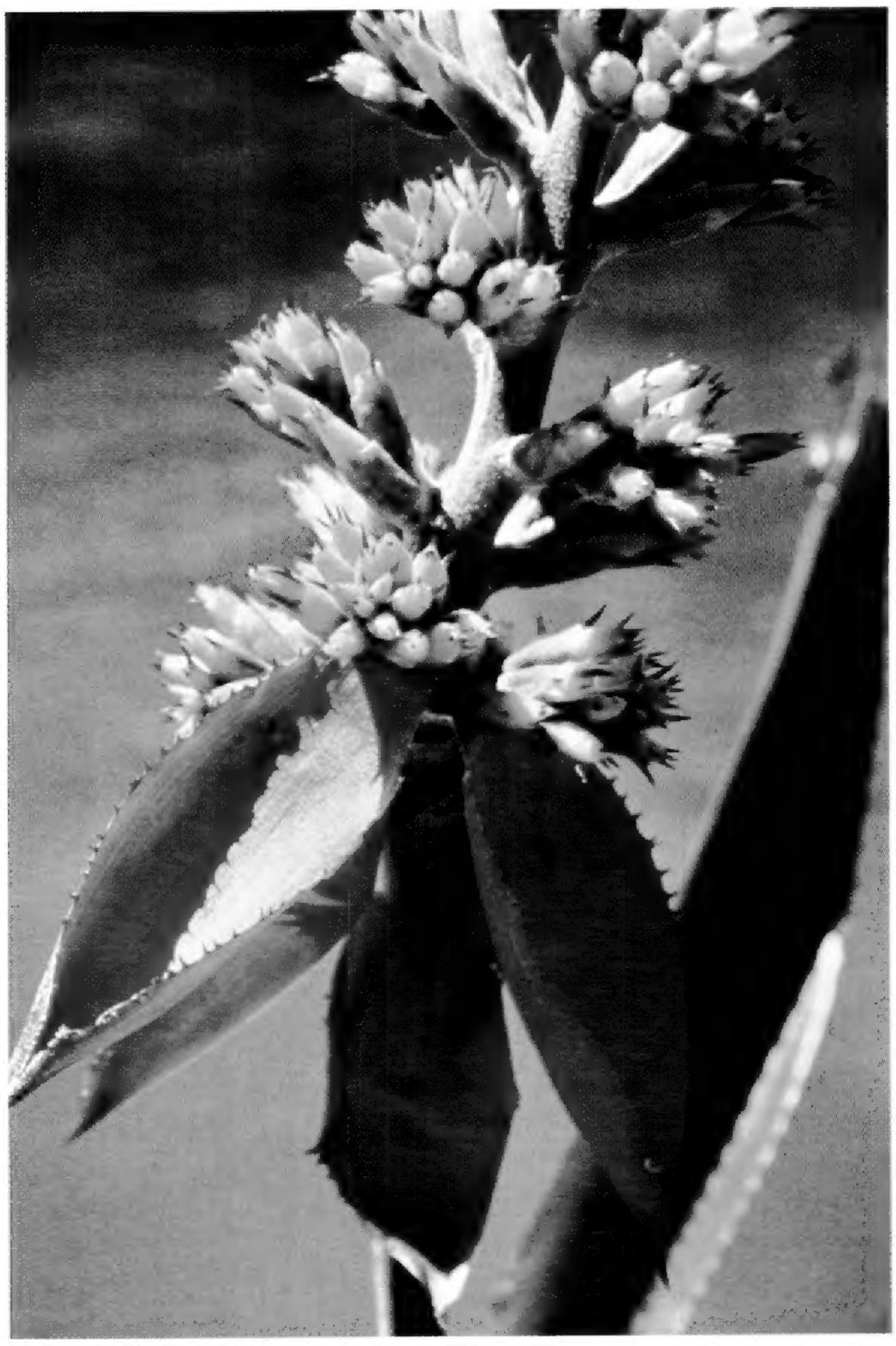

Plate 3. *Aechmea mertensii* (G. Mey.) Schult. & Schult. f. (Bromeliaceae), A epiphytic bromeliad characteristic of moist forests in northern South America, especially near rivers. Collected along the Essequibo River just upstream of Kurupukari. McDowell 3333.

Plate 4. Youth Challenge International (YCI) students assisting with the pressing of collections, along the Essequibo River at high water, September 1990. The specimen is probably *Combretum rotundifolium* Rich. McDowell 3329.

Plate 5. *Passiflora garckei* Mast. (Passifloraceae). This vine was collected near the camp on the west branch of the Eping River. McDowell & Stobey 4000.

Plate 6. *Tillandsia fendleri* Griseb., an epiphyte collected near the confluence of the Kamarang River with the Mazaruni River. McDowell & Gopaul 2583.

Plate 7. *Psittacanthus lasianthus* Sandwith (Loranthaceae). This photograph was taken by McDowell at Kaieteur National Park, but a specimen was not collected. This parasitic plant, or "mistletoe", is endemic to the Guiana Shield, and Kaieteur is the type locality.

Plate 8. *Genipa americana* Steyerm. (Rubiaceae). This is a small tree species characteristic of lake and river shores in northern South America. Collected near Fairview Landing on the east bank of the Essequibo River, opposite Iwokrama. 19 September 1990. McDowell 3259, collected with the YCI students.